



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-762.901(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-762.851, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: Sika Corporation Contact Name: Juan Leon
Company Address: 201 Polito Avenue City, State: Lynhurst, NJ Zip: 07071
E-mail: LEON.JUAN@US.SIKA.COM Contact Number: 256-483-0968
Product Name: Sikafloor 700
Model Number(s): 187684 Product Type: High Chemical resistant epoxy resin
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: _____

Write a brief description of equipment registration request including product limitations:

High Chemical resistant epoxy resin

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	☒	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☒	☐	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☒	☐	☐
4. Technical information and drawings included?	☒	☐	☐
5. Installation instructions included?	☒	☐	☐
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	☐	☐	☒
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?	☐	☐	☒
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☒	☐	☐
9. Has the product been approved or registered in other countries or states? (If so provide list)	☐	☒	☐
10. Any requirements for company-certified installers or trainers?	☒	☐	☐
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- <u>842</u>	☒	☐	☐
12. Any changes or modifications to the equipment since the last submittal to DEP?	☐	☒	☐

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

High chemical resistant epoxy resin. Liquid applied epoxy resin with notched squeegee

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Juan Leon - Technical Sales Representative

Printed Name and Title

Juan Leon

Signature (right click to sign)

Digitally signed by Juan Leon
Date: 2022.08.12 13:27:30 -04'00'

08/12/2022

Date

For Department Use Only:

Date Application Received: 08/24/2022 Application complete: Yes: ☒ No: ☐

EQ- 842 Date of complete or incomplete letter sent: 08/25/2022 Date Equipment Requires Renewal: 08/25/2027

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

JONATHAN P. STEVERSON
SECRETARY

VIA ELECTRONIC MAIL

Nora.J.Ervolino@fpl.com

Ms. Nora J. Ervolino
Florida Power & Light Company
21900 SW Warfield Blvd.
Indiantown, Florida 34956

Subject: Approval of the Sika Corporation: Sikafloor® 161 primer, Sikafloor® 700 Coating, and Sikafloor® 340 aliphatic urethane, the Pecora Corporation: Pecora P-53-VOC primer, and Synthacalk™ GC2+ sealant, Prime Resins, Inc.: Prime Flex™ 900 MV foam injection resin and the De Neef Construction Chemicals, Inc. Dry Oakum jute oakum crack filler.
File No. EQ-842

Dear Ms. Nora J. Ervolino:

The Office of District and Business Support has concluded its review of the Equipment Approval request dated December 23, 2014, that was submitted for the Sika Corporation: Sikafloor® 161 primer, Sikafloor® 700 Coating, and Sikafloor® 340 aliphatic urethane, the Pecora Corporation: Pecora P-53-VOC primer, and Synthacalk™ GC2+ sealant, Prime Resins, Inc.: Prime Flex™ 900 MV foam injection resin and the De Neef Construction Chemicals, Inc. Dry Oakum jute oakum crack filler, pursuant to Rules 62-762.501(1)(e)1., 62-762.501(1)(e)2., and 62-762.851(2), Florida Administrative Code (F.A.C.). The products that Department approval is being requested are primer and protective coating systems for secondary containment associated with aboveground storage tank systems along with products used to fill cracks in concrete secondary containment systems.

Based on the information provided from Sika Corporation, the Pecora Corporation, Prime Resins, Inc. and the De Neef Construction Chemicals, Inc., the Sikafloor® 161 primer, Sikafloor® 700 Coating, Sikafloor® 340 aliphatic urethane, Pecora P-53-VOC primer, Synthacalk™ GC2+ sealant, Prime Flex™ 900 MV foam injection resin and the Dry Oakum jute oakum crack filler provides environmental protection substantially equivalent to that provided by compliance with the requirements established in Rules 62-762.501(1)(e)1., and 62-762.501(1)(e)2., F.A.C. The Sika Corporation, the Pecora Corporation, Prime Resins, Inc. and the De Neef Construction Chemicals, Inc. products listed above may be used as a primer, a protective coating system or materials for filling cracks for secondary containment systems associated with aboveground storage tank systems.

Pursuant to Rule 62-762.851(2), F.A.C., the request for the use of the Sika Corporation: Sikafloor® 161 primer, Sikafloor® 700 Coating, and Sikafloor® 340 aliphatic urethane, the Pecora Corporation: Pecora P-53-VOC primer, and Synthacalk™ GC2+ sealant, Prime Resins, Inc.: Prime Flex™ 900 MV foam injection resin and the De Neef Construction Chemicals, Inc. Dry Oakum jute oakum crack filler is approved in the State of Florida as primer, or protective coating systems of secondary containment system

associated with aboveground storage tank systems and as crack/joint fill materials. The surface preparation and application procedures for each product shall be made in accordance with the manufacturer's recommendations.

Please be advised that the above referenced DEP rules are subject to change. If the above rule standards are modified in the future, this order may be modified or rescinded for future upgrades and installations. Additionally, if the product(s) show a consistent pattern of failure(s), and therefore does not provide substantially equivalent environmental protection, the Department may rescind this order.

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, F.S., within **21** days of receipt of this Order. Persons who have filed such a petition may seek to mediate the dispute and choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning a hearing and pursuing mediation are set forth below.

Persons affected by this Order have the following options:

- A. If you choose to accept the Department's decision regarding the Order, you do not have to do anything. This Order is final and effective as of the date it is clerked and filed (see page 5).
- B. If you choose to challenge the decision, you may do the following:
 - 1. File a request for an extension of time to file a petition for hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order. This request should be made if you wish to meet with the Department in an attempt to resolve any disputes without first filing a petition for hearing or negotiate an agreement to mediate; or
 - 2. File a petition for administrative hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation under Section 120.573, F.S., and must negotiate an agreement to mediate within **10** days after the deadline for filing a petition.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant, shall mail a copy of the request to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant shall mail a copy of the

petition to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information.

- a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the DEP facility number, and the name and address of the facility;
- b) A statement of when and how the petitioner received notice of the Department's action or proposed action;
- c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- e) A concise statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

How to Pursue Mediation

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for hearing). The agreement must contain all the information required by Rule 28-106.404, F.A.C. The agreement, signed by all parties, must be received by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000 within **10** days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

Pursuant to Rule 28-106.404, F.A.C., an agreement to mediate must include the following.

- (i) The name, address, and telephone number of the persons who may attend the mediation, (also the DEP facility number, the name and address of the facility if applicable);
- (ii) The name, address, and telephone number of the mediator agreed to by the parties;
- (iii) How the costs and fees associated with the mediation will be allocated (the Department will not pay any of the costs of mediation);
- (iv) The agreement of the parties regarding the confidentiality of discussions and documents introduced during mediation to the extent authorized by law;
- (v) The date, time, and place of the first mediation session;
- (vi) The name of the party's representative who shall have authority to settle or recommend settlement; and
- (vii) The signature of the parties.

As provided in Section 120.573, F.S., the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, F.S., for holding an administrative hearing and

issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within **21** days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under Sections 120.569 and 120.57, F.S. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57, F.S., are resumed.

This Order is final and effective as of the date it is clerked and filed (see page 5). Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or mediation settlement.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department (see below).

Questions

Any questions regarding the Department's review of your equipment approval should be directed to John Svec at (850)245-8845. Questions regarding legal issues should be referred to Rebecca Robinette, Office of General Counsel, at (850)245-2242. Contact with any of the above does not constitute a petition for administrative hearing, a request for a time extension to file a petition for hearing or an agreement to mediate.

Sincerely,



John A. Coates, PE, Assistant Division Director
Division of Waste Management

JAC/js

Ms. Nora J. Ervolino

EQ-842

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FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to §120.52 Florida Statutes,
with the designated Department Clerk, receipt of
which is hereby acknowledged.

5/15/2015

X



Judith Pennington

Signed by: Penningto_JA

Clerk

(or Deputy Clerk)

Date

Sikafloor® 161

Versatile Epoxy Resin for Priming

Description	Sikafloor 161 is a two part, epoxy resin for priming and leveling mortars.
Where to Use	Sikafloor 161 is designed as a primer for Sikafloor epoxy and urethane coatings, as well as for broadcast and troweled systems. When used as primer Sikafloor 161 can be considered where $\leq 4\%$ moisture content by mass (pbw – part by weight) is measured on concrete substrate with Tramex® CME/CMExpert type concrete moisture meter.
Advantages	■ Low VOC's ■ Excellent penetration and adhesion ■ Easy application ■ Short Recoat Times ■ Multi-purpose use ■ 100% solids as supplied

TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Packaging	Component A: 3.0 US gal. (11.4 L) Component B: 1.5 US gal. (5.7 L) Components A+B: 4.5 US gal. (17 L) (Ready to mix unit)	Component A: 50 US gal. (189 L) (2 units needed) Component B: 50 US gal. (189 L) Components A+B: 150 US gal. (568 L)																								
Color	Gray transparent after mixing.																									
Coverage	160 - 200 ft ² / US gal (3.9 – 4.9 m ² / L) at 8 – 10 mils (0.20 – 0.25 mm) wet film thickness (w.f.t.).																									
Pot Life	Material Temperature +50°F (10°C) +68°F (20°C) +86°F (30°C)	Time ~ 50 minutes ~ 25 minutes ~ 15 minutes																								
Waiting / Recoat Times	Before applying second coat Sikafloor 161 on Sikafloor 161 allow: <table><tr><td>Ambient & Substrate Temperature</td><td>Minimum</td><td>Maximum</td></tr><tr><td>+50°F (10°C)</td><td>24 hours</td><td>3 days</td></tr><tr><td>+68°F (20°C)</td><td>8 hours</td><td>2 days</td></tr><tr><td>+86°F (30°C)</td><td>6 hours</td><td>1 day</td></tr></table> Before applying Sikafloor Epoxy or Polyurethane on Sikafloor 161 allow: <table><tr><td>Ambient & Substrate Temperature</td><td>Minimum</td><td>Maximum</td></tr><tr><td>+50°F (10°C)</td><td>24 hours</td><td>3 days</td></tr><tr><td>+68°F (20°C)</td><td>8 hours</td><td>2 days</td></tr><tr><td>+86°F (30°C)</td><td>6 hours</td><td>1 day</td></tr></table>		Ambient & Substrate Temperature	Minimum	Maximum	+50°F (10°C)	24 hours	3 days	+68°F (20°C)	8 hours	2 days	+86°F (30°C)	6 hours	1 day	Ambient & Substrate Temperature	Minimum	Maximum	+50°F (10°C)	24 hours	3 days	+68°F (20°C)	8 hours	2 days	+86°F (30°C)	6 hours	1 day
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Cure Times	Ambient & Substrate Temperature +50°F (10°C) +68°F (20°C) +86°F (30°C)	<table><tr><td>Foot traffic</td><td>Light traffic</td><td>Full cure</td></tr><tr><td>~ 24 hours</td><td>~ 3 days</td><td>~ 10 days</td></tr><tr><td>~ 12 hours</td><td>~ 2 days</td><td>~ 7 days</td></tr><tr><td>~ 8 hours</td><td>~ 1 day</td><td>~ 5 days</td></tr></table>	Foot traffic	Light traffic	Full cure	~ 24 hours	~ 3 days	~ 10 days	~ 12 hours	~ 2 days	~ 7 days	~ 8 hours	~ 1 day	~ 5 days												
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Properties Tested at 73°F (23°C) and 50 % R.H.:																										
Pull-off Strength	ASTM D4541	> 400 psi (2.7 MPa) (100% concrete failure)																								
Shore D Hardness (7 days)	ASTM D2240	76																								
Solid Content		~ 100% (by volume) / ~ 100% (by weight)																								
VOC Content	ASTM D2369	≤ 30 g/L																								
Permeability	ASTM E96	9.0 g/m ² (24 hours / +75°F)																								
Water Absorption	ASTM D570	0.14 g/h - m ²																								
Viscosity	Components A + B mixed (SP2/100)	Approx. 775 cps																								
Chemical Resistance	Please consult Sikafloor Technical Services.																									
Shelf Life	2 years in original unopened container under proper storage conditions. Store dry between 40°- 90°F (4°- 32°C)																									

Industrial Flooring



How to Use Surface Preparation

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. **Concrete** - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate.

Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

Mixing

Mixing Ratio - 2 : 1 by volume.

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Primer and Intermediate:

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

Application

Primer:

Apply primer by squeegee at the rate of 160 - 200 ft² / US gal (3.4 - 4.9 m² / L) at 8 - 10 mils (0.20 - 0.25 mm) wet film thickness (w.f.t.) and back roll with pressure after 15 minutes. Coverage will vary depending on the porosity of the prepared floor. Product has a limited Pot Life, see Typical Data. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the surface to be coated, then spread with squeegee and back roll. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

Limitations

Notes on Limitations:

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

Substrate Moisture Content: Moisture content of concrete substrate must be ≤ 4% by mass (pbw - part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw - part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor 81 EpoCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85%. If values are > 85% according to ASTM F2170 use Sikafloor 1610 or Sikafloor 81 EpoCem.

ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

Ambient Temperature: Minimum/Maximum 50°/85°F (10°/30°C)

Substrate Temperature: Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

Ambient Relative Humidity: Maximum ambient humidity 85% (during application and curing)

Dew Point: Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

Application: Apply the primer to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

Caution

COMPONENT A: WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER. Contains quartz (SiO₂) (CAS:14808-60-7), bisphenol A-(epichlorhydrin) epoxy resin (CAS:25068-38-6), Benzyl alcohol (CAS:100-51-6), bisphenol F-(epichlorhydrin) epoxy resin (CAS:28064-14-4), oxirane, mono[(C12-14-alkyloxy)methyl]derivs (CAS:68609-97-2) and ethanol (CAS:64-17-5). Keep away from heat, sparks, electrical equipment, and open flame. **DO NOT SMOKE.** Use only in well ventilated areas. Causes skin/eye irritation. Harmful if inhaled in high concentrations/ swallowed. May cause skin sensitization after prolonged contact. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. **Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

COMPONENT B: DANGER: FLAMMABLE, CORROSIVE, SENSITIZER. Avoid direct contact. Contains Benzyl alcohol (CAS:100-51-6), Isophoronediamine (CAS:2855-13-2), m-phenylenebis(methylamine) (CAS:1477-55-0), bisphenol A-(epichlorhydrin) epoxy resin (CAS:25068-38-6), ethanol (CAS:64-17-5), Phenol, 4-dodecyl-, branched (CAS:210555-94-5), and 2,4,6-tris(dimethylaminomethyl)phenol (CAS:90-72-2). **Keep away from heat, sparks, sunlight, electrical equipment, flame or other sources of ignition. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE.** Use only in well ventilated areas. Open doors and windows during use. Harmful if inhaled/ swallowed. Causes skin/eye/digestive tract burns. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. May cause allergic skin reaction. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. **Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. Strictly follow all usage, handling and storage instructions.**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.



First Aid	Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.
Handling and Storage	COMPONENT A: Keep away from heat, sparks, sunlight, electrical equipment or flame. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE. Open doors and windows during use. Use adequate local and mechanical ventilation. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry well ventilated area at temperatures between 40° F(+4°C) and 90°F(+32°C) away from ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. COMPONENT B: Avoid direct contact. Keep away from heat, sparks, sunlight, electrical equipment or flame. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE. Open doors and windows during use. Use adequate local and mechanical ventilation. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry well ventilated area at temperatures between 40° F(+4°C) and 90°F(+32°C) away from ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Clean Up	COMPONENT A: In case of spill, eliminate all ignition and heat sources, if safe to do so. Ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Confine spill, collect using noncombustible absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations. COMPONENT B: Avoid direct contact. In case of spill, eliminate all ignition and heat sources, if safe to do so. Ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Confine spill, collect using noncombustible absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations. Cured material can only be removed mechanically.

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product-Data Sheet, product label and Material Safety Data Sheet which are available online at www.sikausa.com or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Material Safety Data Sheet prior to product use.

LIMITED WARRANTY: Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALLNOTBELIABLEUNDERANYLEGALTHEORYFOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALLNOTBE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Sikafloor® 700

Chemical Resistant Coating

Description A two component, high solids, novolac epoxy with exceptional chemical resistance. Sikafloor 700 can be installed as a stand-alone coating. Its versatility allows Sikafloor 700 to be applied as a topcoat for many of the Sika flooring systems or used as a binder in a slurry/broadcast system. Sikafloor 700 can be applied as a topcoat with Sikafloor Epoxy Color Additive to create a variety of colors.

Where to Use Designed for use as a medium to heavy coat epoxy resurfacer in areas subjected to chemical spillages. Ideal for use in chemical processing, chemical storage areas, and battery charge stations.

Advantages

- Low Odor
- Very good chemical resistance
- Wide range of colors with Epoxy Color Add
- Easy application

TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Packaging Component A: 2.0 US gal. (7.6 L)
Component B: 1 US gal. (3.8 L)
Component A+B: 3.0 US gal. (11.3 L)
(Ready to mix unit)

Color Pigmented with Sikafloor Epoxy Color Additive, 1 quart (0.9 L) size per 3.0 gallon.

Coverage Approximately 80 - 130 ft²/US gal (1.9 - 3.2 m²/L) at 12 to 20 mils (0.3 - 0.5 mm) wet film thickness (w.f.t) or 240 - 390 ft²/US gal (5.9 - 9.6 m²/L) per 3 gallon unit over primed, relatively smooth, dense concrete surfaces.
(The above figures do not allow for surface profile or wastage)

Pot Life

Material Temperature	Time
+50°F (10°C)	~ 50 minutes
+68°F (20°C)	~ 25 minutes
+86°F (30°C)	~ 15 minutes

*Do not apply after indicated Pot Life is exceeded. End of Pot Life is not visible.

Waiting / Recoat Times Before applying second coat of Sikafloor 700 allow:

Ambient & Substrate Temperature	Minimum	Maximum
+50°F (10°C)	24 hours	3 days
+68°F (20°C)	12 hours	2 days
+86°F (30°C)	6 hours	1 day

Cure Times

Ambient & Substrate Temperature	Foot traffic	Light traffic	Full cure
+50°F (10°C)	~ 36 hours	~ 6 days	~ 10 days
+68°F (20°C)	~ 24 hours	~ 4 days	~ 7 days
+86°F (30°C)	~ 18 hours	~ 2 days	~ 5 days

Properties Tested at 73°F (23°C) and 50 % R.H:

Compressive Strength	ASTM D695	9,400 psi (28 days)
Pull-off Strength	ASTM D4541	> 400 psi (2.76 MPa) (100% concrete failure)
Elongation	ASTM D638	24%
Shore D Hardness	ASTM D2240	85 - 88
Impact Resistance	ASTM D2794	160 in-lbs.
Abrasion Resistance	ASTM D4060	25 mg loss
Flammability	ASTM D635	Film is Self Extinguishing
VOC Content	ASTM D2369	≤ 50 g/L
Tensile Strength	ASTM D638	4,340 psi (7 Days)
Shelf Life	2 years in original unopened container under proper storage conditions. Store dry between 40° - 90°F (4° - 32°C).	
Chemical Resistance	Please consult Sikafloor Technical Services.	

Industrial Flooring



How to Use Surface Preparation

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. **Concrete** - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate.

Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

Priming

Priming for concrete substrate is required. Prime with either **Sikafloor 107, Sikafloor 160, Sikafloor 161 or Sikafloor 1610**. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate.

Please refer to the individual most current and respective Product Data Sheet for specific and detailed information.

Mixing

Mix Ratio - 2 : 1 by volume.

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Field Pigmented:

Make sure all surface preparation is complete and installation equipment is ready before starting the mixing sequence. Premix each Component separately, the appropriate Sikafloor Polyurethane Color Additive is added to Component A at a rate of 1 quart per 3.0 mixed gallons (i.e. Components A+B). Mix Component A and Sikafloor Epoxy Color Additive for 2 minutes or until a uniform color is achieved with a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume. Empty Component B (Hardener) in the correct mix ratio to Component A (Resin) and mix for additional 2 minutes. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature

Application

Pour a thin approximately 6 – 12 in. wide bead of Sikafloor 700 in the form of a ribbon on the surface and spread the material at a rate of approximately 130 ft²/ US gal (3.2 m² / L) with a notched squeegee, flat squeegee, or trowel. Apply as evenly as possible, working from left to right, and then back. Back rolling is typically done with an 18 inch (454 mm) wide short nap, 3/8-inch (10 mm), solvent-resistant roller cover. Back roll the Sikafloor 700 only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks.

Limitations

Notes on Limitations:

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

Substrate Moisture Content: Moisture content of concrete substrate must be ≤ 4% by mass (pbw – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor 81 EpoCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85%. If values are > 85% according to ASTM F2170 use Sikafloor 1610 or Sikafloor 81 EpoCem.

ASTM F2170 testing is **not** a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

Ambient Temperature: Minimum/Maximum 50°/85°F (10°/30°C)



Substrate Temperature: Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

Relative Ambient Humidity: Maximum ambient humidity 85% (during application and curing)

Dew Point: Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

Application: Apply the coating to the prepared substrate which should be pore-free and pinhole-free. If necessary, apply an additional coat of a suitable material to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

Caution	COMPONENT A: WARNING - IRRITANT, SENSITIZER: Contains epoxy resins, Furfuryl Alcohol (CAS 98-00-0). Eye irritant. May cause skin/respiratory irritation. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal. Harmful if swallowed. Strictly follow all use, handling and storage instructions. COMPONENT B: WARNING: CORROSIVE, SENSITIZER, IRRITANT. Contains amines (mixture), bisphenol A (CAS 80-05-7). Contact with skin and eyes causes severe burns. Respiratory irritant. May cause eye/skin irritation. Possible skin sensitization/allergic reaction with prolonged or repeated exposure. Harmful if swallowed. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal. Strictly follow all handling, use and storage instructions.
First Aid	Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.
Handling and Storage	Wear protective equipment (gloves/safety glasses/clothing) to prevent contact with skin and eyes. Keep container closed in a cool dry place. Wash skin thoroughly with soap and water after use. Use with adequate, general and local, exhaust ventilation. In absence of adequate ventilation, use a properly fitted NIOSH respirator. Remove contaminated clothing. Launder before reuse. Store in cool, dry and well ventilated area with container closed.
Clean Up	Avoid direct contact with eyes and skin. Wearing chemical resistant goggles/gloves/clothing, collect spill. Ventilate area. In absence of adequate ventilation, use properly fitted NIOSH respirator. Sweep up spill and place in closed container. Dispose of in accordance with applicable local, state and federal environmental regulations.

Industrial Flooring



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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKAShall NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKAShall NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Sikafloor® 340

Abrasion and UV Resistant Aliphatic Urethane

Description	Sikafloor 340 is an aliphatic urethane with excellent chemical resistance and UV resistance.
Where to Use	Sikafloor 340 is typically used in areas such as aircraft hangars, light to medium traffic areas, where light reflectance and chemical resistance to spills are required. It can be used as two part clear and three part pigmented coating.
Advantages	■ VOC compliant in 340 g/L regulated districts ■ Excellent UV resistance ■ Light reflectance ■ Good stain resistance ■ High abrasion resistance ■ Excellent chemical resistance ■ Wide range of colors using Sikafloor Urethane Color Additive ■ Clear or Pigmented

TYPICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Packaging	Component A: 1.50 gal. (5.67 L) Isocyanate Component B: 1.00 gal. (3.78 L) Catalyst Color Additive: 0.25 gal. (0.95 L) Component A+B: 2.75 gal. (10.41 L) (Only recommended for pigmented use)	Component A: 5 gal. (18.9 L)* Isocyanate Component B: 5 gal. (18.9 L) Catalyst Component A+B: 15 gal. (56.7 L) *(2 Units needed)
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Color	Clear or pigmented with Sikafloor Polyurethane Color Additive, 1-quart (0.95 L) size per 2.5 mixed US gallon.
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Coverage	Depending upon profile of existing surface, coverage is approximately 350 ft² per gallon (8.6m²/L) per coat, Clear at 350 - 400 ft² per gallon (8.6 - 9.8 m² /L) at 4 - 5 wet mils Wet: 4.0 - 5.0 mils / coat Dry: 2.0 - 3.0 mils / coat Two (2) coats are suggested over a primed surface (The above figures do not allow for surface profile or wastage)
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Pot Life	<table> <tr> <th>Material Temperature</th><th>Time</th></tr> <tr> <td>+50°F (10°C)</td><td>~ 45 minutes</td></tr> <tr> <td>+68°F (20°C)</td><td>~ 30 minutes</td></tr> <tr> <td>+86°F (30°C)</td><td>~ 15 minutes</td></tr> </table> *Do not apply after indicated Pot Life is exceeded. End of Pot Life is not visible.	Material Temperature	Time	+50°F (10°C)	~ 45 minutes	+68°F (20°C)	~ 30 minutes	+86°F (30°C)	~ 15 minutes
Material Temperature	Time								
+50°F (10°C)	~ 45 minutes								
+68°F (20°C)	~ 30 minutes								
+86°F (30°C)	~ 15 minutes								

Waiting / Recoat Times	Before applying second coat of Sikafloor 340 allow		
	Ambient & Substrate Temperature	Minimum	Maximum
	+50°F (10°C)	24 hours	3 days
	+68°F (20°C)	8 hours	2 days
	+86°F (30°C)	6 hours	1 day

Cure Times	Ambient & Substrate Temperature	Foot traffic	Light traffic	Full cure
	+50°F (10°C)	~ 24 hours	~ 6 days	~ 10 days
	+68°F (20°C)	~ 12 hours	~ 4 days	~ 7 days
	+86°F (30°C)	~ 6 hours	~ 2 days	~ 5 days

Properties Tested at 73°F (23°C) and 50 % R.H:

Abrasion Resistance (CS-17 Wheel, 1000 gm load, 1000 cycles)	ASTM D4060	18 mg loss
VOC Content	ASTM D2369	≤ 280 g/L
Slip Resistance	ASTM D2369 With Sikafloor Urethane Color Add Only	≤ 290 g/L
Chemical Resistance	Equivalent to ASTM D2047	Passes
	Please consult Sikafloor Technical Services.	

Industrial Flooring



How to Use Surface Preparation	Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.
Priming	Priming for concrete substrate is required. Prime with either Sikafloor 107, Sikafloor 160, Sikafloor 161 or Sikafloor 1610. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate. Please refer to the individual most current and respective Product Data Sheet for specific and detailed information.
Mixing	Mixing Ratio - 2 : 1 by volume. For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity. Clear Resin: Premix each component separately and divide each component into smaller portion (i.e. 2 gal. Component - A and 1 gal. Component - B). Empty contents of Component A or correctly measured part of such into a suitably sized and clean mixing container and add contents of Component B or correct ratio of such. Prepare only that quantity which can be used within the pot life of the material. Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mixing Ratio – 1.5:1 by volume + 1 quart Sikafloor Polyurethane Color Additive. Field Pigmented: Premix each component separately. If color is desired, the appropriate Sikafloor Urethane Color Additive is added to Component A at a rate of 1 quart per 2.50 mixed gallons (i.e. Components A+B). Mix Component A (Isocyanate) and Sikafloor Polyurethane Color Additive for 2 minutes or until a uniform color is achieved with a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume. Empty component - B (Catalyst) in the correct mix ratio to component - A (Isocyanate) and mix for additional 2 minutes. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in coating. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature
Application	Pour a thin bead (approximately 6"-12" wide) of Sikafloor 340 on the surface, use a flat squeegee to distribute the material evenly and back roll. Back roll the Sikafloor 340 only to level the thickness of material applied. Do not apply in excess of 5 mils (0.125mm) WFT, failure of the coating may occur. Divide the floor into sections (at expansion joints or doorways when possible) that can be completed without stopping. Where a section will end, it should be taped off to form a straight line providing a clean edge for an adjacent section. Back rolling is typically done with an 18-inch (.5 m) short nap, 3/8-inch (9.5 mm), solvent resistant roller cover. Over-rolling may cause non-uniform sections and bubbling.
Limitations	Notes on Limitations: Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.). Substrate Moisture Content: Moisture content of concrete substrate must be ≤ 4% by mass (pbw – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor 81 EpoCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be $\leq 85\%$. If values are $> 85\%$ according to ASTM F2170 use Sikafloor 1610 or Sikafloor 81 EpoCem.

ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

Ambient Temperature: Minimum/Maximum 50°/85°F (10°/30°C)

Substrate Temperature: Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

Relative Ambient Humidity: Minimum ambient humidity 30%

Maximum ambient humidity 75% (during application and curing)

Dew Point: Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

Application: Apply the coating to the prepared substrate which should be pore-free and pinhole-free. If necessary, apply an additional coat of a suitable material to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- Vapors from this product can be objectionable to people unaccustomed to the odor; do not apply in or around buildings occupied by non-construction personnel without consulting building management.
- Do not apply at a mil thickness greater than recommended. Too thick of an application may result in solvent entrapment and improper curing.
- For professional use only by experienced applicators.

Caution

COMPONENT A: WARNING: COMBUSTIBLE, IRRITANT. Contains Solvents (Mixture). Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE. Use only in well ventilated areas. Open doors and windows during use. May cause eye/respiratory irritation. Harmful if absorbed through skin or swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Deliberate misuse by inhalation of vapors can be harmful or fatal.

Strictly follow all use, handling and storage instructions.

COMPONENT B: WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER. Contains Polyisocyanate Prepolymer (Mixture), 1,2,4-Trimethylbenzene (CAS 95-63-6) Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE. Use only in well ventilated areas. Open doors and windows during use. Eye irritant. May cause skin irritation. May cause skin and/or respiratory sensitization after prolonged and repeated contact. Harmful if swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Deliberate misuse by inhalation of vapors can be harmful or fatal.

Strictly follow all use, handling and storage instructions.



Industrial Flooring

First Aid	Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.
Handling and Storage	Keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE. Open doors and windows during use. Use adequate local and mechanical ventilation. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry well ventilated area at temperatures between 40°F and 95°F and away from ignition sources. Empty containers may contain product residue including flammable or explosive vapors. Do not cut or puncture empty container.
Clean Up	In case of spill, keep away from heat, sparks, electrical equipment, open flame and other sources of ignition. DO NOT SMOKE. Ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Confine spill, collect using noncombustible absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at www.sikausa.com or by calling 800-933-7452.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Material Safety Data Sheet which are available online at www.sikausa.com or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Material Safety Data Sheet prior to product use.

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKAShall NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKAShall NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Visit our website at www.sikausa.com

1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

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Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
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Pecora P-53-VOC

Two-Part Epoxy Primer

Specification Data Sheet



PECORA
CORPORATION®
Architectural Weatherproofing Products
U.S.A. - since 1962

1. BASIC USES

- To help prevent deterioration of porous masonry surfaces
- To enhance the adhesion of Pecora Synthacalk® GC-2+ sealant to most porous and non-porous surfaces.

2. MANUFACTURER

Pecora Corporation
165 Wambold Road
Harleysville, PA 19438
Phone: 215-723-6051
800-523-6688
Fax: 215-721-0286
Website: www.pecora.com

3. PRODUCT DESCRIPTION

P-53-VOC is a two-component epoxy primer, with a low viscosity formulation that penetrates and seals concrete pores.

Limitations:

- P-53-VOC should not be thinned with solvents unless advised to do so by Pecora.
- For industrial / commercial use. Installation by trained personnel only

PACKAGING

- 30 ounce (0.8872L), 2 part kit (15 oz. Part A Resin and 15 oz. Part B Activator)

4. TECHNICAL DATA

(See Chart to the right)

5. INSTALLATION

Surface Preparation - Concrete: New concrete should be cured a minimum of 28 days. For existing concrete, remove any laitance or weak surface layers. Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or other contaminants.

Surface Preparation - Steel: For immersion service, "White Metal" abrasive blast with an anchor profile of 2-4 mils in accordance with Steel Structures Painting Council Specification SP-5-63 or NACE No. 1 is required. For splash and spillage exposure, "Near White" SP-10-63 or NACE No. 2 is required.

Mixing Instructions: Parts A (Resin) and B (Activator) must be mixed at a 1:1 ratio.

- Part A Resin should be premixed prior to use due to possible additive separation.
- Pour Part B Activator into the Part A Resin pail and mix by hand for a minimum of two minutes. Scrape the side of the pail to ensure the entire product has been properly mixed; any unmixed material left on the side of the pail will not cure.

Application: Pecora P-53-VOC should be applied at the rate of 700-800 linear ft./unit (concrete); 1100-1300 linear ft./unit (steel). It can be applied using a brush or phenolic core roller. Confirm product performance in specific chemical environment prior to use. Allow primer to cure within recommended recoat time before proceeding with the application of Pecora Synthacalk® GC 2+. Recoat required after 8 hours of initial application.

Clean-Up: Equipment should be cleaned immediately after use with a solvent such as mineral spirits or xylene, as permitted under local regulations. Always wear gloves when using this product.

Storage Life: Pecora P-53-VOC has a shelf life of 12 months from the date of manufacture when stored in a dry area between 65-80°F in original, unopened containers.

Precautions: Flammable. Keep away from heat, sparks, and flame. Use only in well-ventilated areas.

MAY FORM FLAMMABLE OR EXPLOSIVE VAPOR – AIR MIXTURE DURING USE. MAY CAUSE EYE, SKIN, OR RESPIRATORY TRACT IRRITATION, OR ALLERGIC REACTION. Do not breathe fumes, dust, vapors, or mist. Keep container closed when not in use. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. Inhalation causes headache, drowsiness, or other effects to the central nervous system. Kidney or liver damage can occur. Use only with adequate ventilation or wear an appropriate NIOSH-approved respirator. Do not get into eyes, on skin, or on clothing. Wear suitable chemical resistant gloves. Wash thoroughly after handling. DANGER: HARMFUL OR FATAL IF SWALLOWED. REPEATED CONTACT MAY, WITHOUT SYMPTOMS, INCREASE SUSCEPTABILITY OF THESE EFFECTS.

**FOR PROFESSIONAL USE ONLY.
KEEP OUT OF THE REACH
OF CHILDREN.**

TYPICAL PHYSICAL PROPERTIES

Physical Property

Coverage Rate (concrete)
Coverage Rate (steel)
Re-coat time (concrete @ 77°F)
Re-coat time (steel @ 77°F)
Specific Gravity Part A
Part B
Solids Contents (Mixed)
VOC Content (g/L)

Typical Value

700-800 lin. ft./unit
1100-1300 lin. ft./unit
min. 2 hrs./max. 36 hrs.
min. 4 hrs./max. 36 hrs.
0.9894
1.23
65%
50

6. AVAILABILITY AND COST

Pecora products are available from stocking distributors nationwide. For the name and telephone number of your nearest representative, call the number below or visit our website at www.pecora.com.

7. WARRANTY

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when used in strict accordance with our published recommendations and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of remedy available under this warranty, shall be made in our sole discretion and any decisions made by Pecora Corporation shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose and in no case will Pecora be liable for damages other than those expressly stated in this warranty, including but not limited to incidental or consequential damages.

8. TECHNICAL SERVICES

Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions or to conduct jobsite inspections. For further assistance call our Technical Service Department at 800-523-6688 or 215-723-6051

9. FILING SYSTEMS

- Sweet's Catalog File: www.sweets.com
- General Building
 - 07100 Waterproofing
 - 07920 Sealants
- Civil Engineering
 - 07100 Waterproofing



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Synthacalk™ GC2+

Two-Part Polysulfide Rubber Sealant

Specification Data Sheet



PECORA CORPORATION

Architectural Weatherproofing Products
U.S.A. - since 1962

1. BASIC USES

Synthacalk™ GC2+ provides a durable, elastomeric, weather-tight seal for caulking joints in commercial and industrial projects. It is particularly effective where exposure to solvents or chemicals are anticipated.

2. MANUFACTURER

Pecora Corporation
165 Wambold Road
Harleysville, PA 19438
Phone: 215-723-6051
800-523-6688
Fax: 215-721-0286
Website: www.pecora.com

3. PRODUCT DESCRIPTION

Typical Applications: Synthacalk™ GC2+ is a two part, polysulfide, non sag sealant that maintains an effective bond between materials of similar or dissimilar porosities, surface texture, or expansion coefficients. Typical applications include swimming pools, fountains, cooling towers fuel and chemical storage tanks, wastewater treatment and petrochemical plants.

Limitations: Synthacalk™ GC2+ is not recommended for:

- Structural or butt glazing.
- Joints less than 1/4" (6 mm) in width or depth.
- Certain architectural paints and finishes without prior testing.

PACKAGING

- 1-1/2 gallon (3.8L) unit
Consisting of base and activator nested in 2-gallon pail.)

COLOR

- Dark Grey

4. TECHNICAL DATA

Applicable Standards: Synthacalk™ GC2+ meets or exceeds all aspects of Federal Specification TT-S-00227E, Type II, Class A in all respects except Section 3.5.7, "Stain and Color Change", ASTM

C920, Type M, Grade NS, Class 25, Use, NT, T, M, G, A, with the exception of ASTM C510 "Stain and Color Change". Also exceeds the test requirements of ASTM C1247 for sealants exposed to continuous immersion in liquids and NSF Standards 61, Section 6 for Joining and Sealing Materials.

Synthacalk™ GC2+ two component joint sealant is resistant to the effects of sunlight, rain, snow, ozone, aging, shrinkage, and the daily and seasonal cyclic changes in temperature, even after years of exposure.

5. INSTALLATION

Joint Design: The minimum width of the joint should be 4 times the anticipated movement, but not less than 1/4" (6 mm). Maximum recommended width is 1" (24 mm). The depth of the joint should be no more than one-half the width without exceeding the minimum/maximum limits. Maximum depth should be 1/2" (12 mm). For additional information, contact Pecora's Technical Services Department.

Surface Preparation: Joint interface must be clean, dry, and free from oils, loose mortar, laitance, waterprooings, and other contaminants. A thorough grinding, sandblasting, or solvent cleaning may be required to expose clean, sound surfaces.

Priming: Synthacalk™ P53VOC primer must be applied to joint surfaces. Sealant must be applied after primer has dried, but within 8 hours after application.

Joint Backing: Backer rod is necessary to control depth of sealant and provide

a base for tooling pressure. Backer rods should be closed-cell polyethylene foam. Use a size that will compress at least 25% when inserted into the joint. In joints too shallow for backer rod, a bond-breaker tape should be used to prevent three sided adhesion. (Typical bond breakers are polyethylene tape or coated papers).

Application: Synthacalk™ GC2+ is supplied in a non-sag consistency which will gun easily with conventional caulking equipment. Fill joint completely, using standard caulking equipment and tool immediately. Proper width to depth ratios must be maintained. Thorough blending of the base and activator components is essential for optimum sealant performance. Remove the Activator (Part A) from the Base (Part B) container. Also, be sure to remove the polyethylene sheet or tray. Before adding Part A, mix Part B with a Pecora #2 mixing paddle with a low speed, heavy duty electric drill. Then, add Part A to Part B and mix for six (6) minutes, or until the material is completely blended, scraping down the sides of the container and mixing paddle periodically during mixing.

NOTE: Do not mix base and activator components from one shipment with components from another.

Application Life: 1 hour at 75° F (24° C); higher temperatures shorten application life. Substrate temperature must range between 50° F (10° C) and 110° F (43° C).

Shelf Life: One year in original, unopened containers stored at temperatures lower than 80° F (26° C).

TYPICAL PHYSICAL PROPERTIES at 77°F (25°C), 50% RH

Test Property	Value	Test Procedure
Specific Gravity, mixed (g/ml)	1.70	ASTM D70
Solids (%)	100	ASTM C1250
Joint Movement (%)	+/-25	ASTM C719
Hardness (Shore A)	25-30	ASTM C661
Work Life (hours)	1	Pecora Corporation
Tack-Free (hours)	<24	ASTM C679
Elongation (%)	500-550	ASTM D412
Tensile Strength (psi)	150-200	ASTM D412
100% Modulus (psi)	50	ASTM D412
200% Modulus (psi)	80	ASTM D412

Tooling: Tooling is recommended immediately after application to ensure full contact with the joint interfaces. Dry tooling is preferred. Care should be taken to avoid contamination of open joints.

Clean Up: Remove Synthacalk™ GC2+ from equipment before it cures. Recommended solvents are MEK*, Toluene* or Xylene*. These solvents are not effective after cure. Cured material may be removed by cutting with sharp tools, sandpapering or softening with chlorinated solvents*.

*(Solvents mentioned are toxic and flammable. Observe solvent manufacturer's precautions and refer to Material Safety Data Sheets).

Allow Synthacalk™ GC2+ to attain a complete cure before filling caulked area with water (7 days minimum). Surface of Synthacalk™ GC2+ can be painted after complete cure.

Precautions: Wear gloves or a barrier hand cream. Avoid direct contact with material; do not take internally. Remove promptly from skin with a commercial hand cleaner before eating or smoking. Avoid inhaling vapors.

**FOR PROFESSIONAL USE ONLY.
KEEP OUT OF THE REACH
OF CHILDREN.**

6. AVAILABILITY AND COST

Pecora products are available from our plants and warehouses, or from stocking distributors in all major cities. For the name and telephone number of your nearest representative call 800-523-6688 or visit our website at www.pecora.com.

7. WARRANTY

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when installed in accordance with our published recommendations and in application considered by us as suitable for this product. This warranty is in lieu of any and all other warranties, expressed or implied, and in no case will Pecora be liable for incidental or consequential damages.

8. MAINTENANCE

If the sealant is damaged and the bond is intact, cut out the damaged area and recaulk. No primer is required. If the bond has been affected, remove the sealant, clean and prepare the joint in accordance with the instructions under "INSTALLATION".

9. TECHNICAL SERVICES

Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions or to conduct jobsite inspections. For further assistance call our Technical Service Department at 800-523-6688.

10. FILING SYSTEMS

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 - 07100 Waterproofing
 - 07920 Sealants
- Civil Engineering
 - 07100 Waterproofing



CHEMICAL RESISTANCE CHART

This data should only be used as a guide. It is recommended to test the material under actual (or at least simulated) service conditions before specification and/or use.

Rating Key:

R = Recommended

C = Intermittent Contact; not continuous immersion

NR = Not Recommended

C Acetic Acid, 10%	R Ferrous Sulfate, 10%	R N-Butyl Alcohol
C Acetic Acid, 50%	R Fluoboric Acid, 10%	R Naphtha VM & P
NR Acetic Acid, Glacial	NR Formic Acid, 90%	R Naphthalene Oil
C Acetone	R Fuel Oil/Diesel Fuel	NR Nitric Acid, 10%
C Acrylonitrile	NR 2-Furaldehyde	NR Nitric Acid, 30%
R Aluminum Sulfate Solution, 50%	R Gasoline, Leaded	NR Nitric Acid, 60%
R Ammonium Chloride Solution, 50%	R Gasoline, Unleaded	R Oleic Acid
C Ammonium Hydroxide Solution, 28%	R Gashol	R Oxalic Acid, 20%
R Ammonium Perchlorate, 15%	NR Glycol Ether EM	R Paraffinic Oil
R Ammonium Perchlorate, 50%	R Heptane	Pesticides
R Ammonium Polysulfate	Herbicides	R —Arrosolo 3.3E
R Ammonium Sulfate Solution, 30%	R — Marksman	R — Eradicane 6.7E
R Amyl Alcohol	R — Banvel	R Phenolic Resins
NR Arcosolv PM Acetate	C — Dual 8E	R Phosphoric Acid, 50%
R ASTM Fuel A	C — Bicep 6L	C Phosphoric Acid, 60%
R ASTM Fuel B	R —Aatrex 4L	C Phosphoric Acid, 75%
R ASTM Fuel C	R — Prowl 3.3 EC	R Phthalic Anhydride, 38% slurry
R ASTM Fuel D	R — Tri-4	Pickling Solution
R Barium Hydroxide, 10%	R —Treflan	NR — 20% Nitric Acid, 4% HF
NR Benzene	R — Serve 24E	NR — 17% Nitric Acid, 4% HF
NR Benzoflex 9-88	R — Sonalan E.C.	R Potassium Carbonate
NR Benzoic Acid, 5%	R Hexane	R Potassium Hydroxide Solution, 25%
R Borax Solutions, 25%	R Hexane Glycol	R Potassium Hydroxide, 50%
R Boric Acid Solution, 20%	C Hydrochloric Acid, 20%	R Potassium Permanganate, 6%
R Borohydride Solution	NR Hydrochloric Acid, 37%	R Propylene Glycol
R 1-4 Butanediol	R Hydrofluoric Acid, 5%	NR Propylene Oxide
NR Butyl Benzyl Phthalate	R Hydrofluoric Acid, 10%	R SAE 10 Oil
R Butyl Cellosolve	R Hydrofluoric Acid, 23%	R Shell Tellus Oil 46
NR Butyl Cellosolve Acetate	R Hydrogen Peroxide, 3%	R Skydrol 500B
R Butyl Diiodide	R Hydrogen Peroxide, 20%	R Soap Solutions
R Butyl Oxidol	R Hydrogen Peroxide, 35%	R Sodium Bicarbonate Solution, 25%
R Calcium Chloride Solutions, 50%	R Isobutyl Alcohol	R Sodium Chloride Solution, 25%
R Calcium Hydroxide, 20%	R Isobutyl Isobutyrate	C Sodium Cyanide, 5%
R Calcium Hypochlorite, 50%	NR Isophorone, 97%	R Sodium Hydroxide, 50%
NR Carbon Disulfide	R Isopropyl Alcohol	R Sodium Hydroxide, 50% @ 120°F
C Carbon Tetrachloride	C Isopropylamine	NR Sodium Hypochlorite, 5%
NR Carbitol Acetate	R Isotearic Acid	R Sodium Hypochlorite, 8%
R Caustic Potash, 45%	R Jet Fuel (See ASTM Fuels)	R Sodium Sulfide, 25%
NR Cellulosolve Acetate	R Kerosene	NR Solvent 150
R Chlorinated Water, 1ppm	R Lacquer Solvents	R Stearic Acid, 20%
R Chlorinated Water, 10ppm	R Linseed Oil	NR Styrene
R Chlorinated Water, 100ppm	R Lubricating Oils	R Sulfuric Acid, 20%
NR Chromic Acid, 15%	R Magnesium Chloride Solution, 20%	NR Sulfuric Acid, 50%
NR Chromic Acid, 35%	R Magnesium Hydroxide Solution, 30%	NR Sulfuric Acid, 66%
R Copper Sulfate Solution, 20%	NR Malathion 50	NR Sulfuric Acid, 8% @ 120°F
NR Creosote	R Maleic Anhydride, 25% Slurry	NR Tetrahydrofuran
NR Cumene Hydroperoxide	NR 2-Mercaptoethanol	NR Tetrahydrofurfuryl Alcohol
R Cyclohexane	R Methanol	R Texanol
R Dibutyl Carbitol	C Methyl Acrylate	NR Toluene
R Diethylene Glycol	R Methyl Carbitol	R Transmission Fluid
NR Dimethyl Formamide	NR Methyl Cellosolve Acetate	C 1, 1, 1 Trichloroethane
NR Epichlorohydrin	C Methyl Ethyl Ketone	R Trilon X100
C Ethyl Acetate	C Methyl Methacrylate	R Urea, 10%
C Ethyl Acrylate	C Methyl n-Amyl Ketone	R Urea Ammonium Nitrate, 32%
R Ethyl Alcohol	NR Methylene Chloride	C Vinylidene Chloride
R 2-Ethyl Hexyl Acrylate	R Methyl Tert-Butyl Ether, 98%	R Vinyl Acetate
NR Ethylene Dichloride	R Mineral Spirits	C Xylene
R Ethylene Glycol	R Motor Oil 10W/40	R Zinc Chloride, 10%
C Ferric Chloride, 50%	R N-Butyl Acrylate	R Zinc Nitrate, 17%



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PRIME FLEX™ 900 MV

Water Activated Polyurethane Foam Injection Resin

ADVANTAGES:

- Single component.
- Extremely tough and flexible.
- Up to 600% expansion unconfined.
- Medium viscosity designed for wide cracks and joints.

PACKAGING:

- 1 Gallon Jugs (case of 4)
- 5 Gallon Pail
- 2:1 "Quick Mix" Cartridge (case of 10)
- 10 oz "Single Shot" Cartridge (case of 20)

Packaged under a dry nitrogen blanket.

DESCRIPTION AND USES:

Detailed Description

Prime Flex 900 MV is a medium viscosity liquid resin that reacts with water and expands to form a closed cell, watertight foam. 900 MV is used to seal actively leaking joints and cracks in concrete structures. Material is typically injected under pressure through injection ports.

Technical Description

Medium viscosity, single component, water activated, hydrophilic, polyurethane injection resin.

Uses

Sealing active leaks in above or below grade concrete structures.

Cracks, Expansion Joints, Wide Cracks, Pipe Joints, Pipe Penetrations

Oil Free Oakum or Open Cell Backer Rod may be soaked in Prime Flex 900 MV to create a watertight gasket.

Typical Structures

Water Treatment Tanks, Dams, Below Grade Concrete Walls, Tunnels, Manholes, Elevator Service Pits.

PHYSICAL PROPERTIES:

Physical Properties 73° F- Liquid

Viscosity 650-700 Centipoise.
Solids Content 93%.

Physical Properties - Cured

Tensile Strength	(ASTM D-3574)	440 p.s.i.
Tensile Elongation	(ASTM D-3574)	410%
Shrinkage	(ASTM D-1042 / D-756)	Less than 2%
Tear Resistance	(ASTM D-3574)	86 lbs / inch

These properties were based on foam cured under pressure to simulate conditions inside a confined crack. Properties will vary depending on application conditions.

Reaction Times

Initial Reaction	30 seconds
Full Rise	1 minute, 50 seconds
Full Cure	24 hours

GENERAL GUIDELINES:

Material Preparation	Store material overnight to precondition to 70°-80° F prior to use. It is not necessary to pre-mix Prime Flex 900 MV prior to use.
Mix Ratio and Mixing Procedures:	Uses available water to initiate reaction. Inject as a single component or twin stream 2 parts resin to 1 or 2 parts water.
How To Use:	See www.primeresins.com/primepractices.php
Accessory Products:	Eco Flush, Oakum, Injection Ports, Prime Plug, Injection Pumps
Personal Protection:	Safety Glasses, gloves, avoid skin contact, do not ingest, for professional use only, see MSDS. For use in well ventilated areas only to keep vapor concentrations low. Use mechanical ventilation if necessary. Use self contained breathing apparatus in confined areas.
Cleanup:	Flush injection equipment with Prime Flex Eco Flush. Clean off of skin with soap and water. Remove cured material by soaking in Prime Flex CGC.
Environmental Protection:	Cured material is environmentally safe. Dispose of in approved landfill. Clean up any spilled liquid material and add a small amount of water to cure unreacted material.
First Aid:	Eye Contact: Immediately flush with large amounts of water. Seek medical attention. Inhalation: Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. Ingestion: Seek medical attention immediately. Skin Contact: Wipe off contaminated area and wash with soap and water.
Limitations:	Cold temperatures will slow down reaction time and increase viscosity. pH below 3 or above 10 may adversely affect foam properties.
Warranty:	Prime Resins warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.
Storage:	Store in dry environment between 40° and 80° F. Shelf Life: 18 months from date of manufacture in unopened containers properly stored.
Shipping Information:	Shipping Class: Motor Freight Class 60 Hazard Classification: Non Hazardous
Manufacturer Information:	This product is manufactured by Prime Resins under strict quality assurance practices at our Conyers, GA plant.



PRIME RESINS
Injecting Life into Infrastructure

A BAYION INDUSTRIES COMPANY



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2291 Plunkett Road Tel: (770) 388-0626
Conyers, GA 30012 Fax: (770) 388-0936

24/7 TECH SUPPORT 800-321-7212



Dry Oakum

Product Description

DeNeef's Dry Oakum is a 2" diameter natural jute rope comprised of 8 strands, having a twist of approximately 1-1/4 turns per foot. The loose twist is easily unraveled to allow for fitting into joints or annular spaces from 1/2" to 2". Single strands can be broken down to fit into openings smaller than 1/2". When combined with DeNeef PUnE polyurethane grouts and water, the system swells to seal cracks, joints, and annular spaces around pipe penetrations. The system is ideal for pre-injection sealing of openings or to stop flowing water prior to final injection of chemical grout.



Product Advantages

- Very absorbent natural jute
- Easy to cut to size
- No oils or tars added
- Strands easy to separate
- Conforms to any shape opening

Applications

- Sealing joints and cracks
- Sealing around pipe penetrations
- Stopping flowing water
- Pre-injection surface sealing

Properties

Physical Properties	
Color	Brown
Weight	0.4 lbs. / ft at 2" dia.
Diameter	Approx: 2" (8 strands twisted)
Conforms to:	Federal Specification HH-P-117

Note: The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

Packaging & Handling

Dry Oakum is provided in a 50 lb. box
Approximate yield: 1/2" strands = 1000 ft.
2" strands = 125 ft.

Store in dry conditions.

Health and Safety

Always use protective clothing, gloves and goggles consistent with OSHA regulations. Avoid eye and skin contact. Do not ingest or inhale fibers.

Limitations

Wider cracks and joints sealed with chemical grout saturated dry oakum may require additional grout injection to achieve seal if excessive pressures or high water flow are present.

Installation Guidelines

Warning: Use proper tools and safe cutting techniques to prevent injury while cutting Dry Oakum. Work on a flat well lighted surface and make all cutting motions away from the body. Always wear gloves, goggles and protective clothing when installing chemical grout soaked Dry Oakum. Refer to the manufacturers safety instructions for the resin being used before proceeding.

Installation Instructions:

1. Clean area to be sealed prior to installing saturated oakum to facilitate a good bond to the substrate.
2. Cut Dry Oakum into workable lengths. (18"-24") Properly saturated and installed oakum will create a seal to itself, so several short sections may be used.
3. Loosen fibers with the hands to enhance material absorption.
4. In a clean pail pour DeNeef PURE polyurethane grout and add catalyst if required.. (Refer to the DeNeef technical department for the correct choice of chemical grout for your application.)
5. In a second pail, pour clean water to be used to initiate the chemical grout reaction.
6. Prior to saturating the Dry Oakum with chemical grout, wet the substrate with water and have a method available to apply water to the surface of saturated oakum after it is installed.
7. Using a gloved hand, submerge the Dry Oakum into the pail of chemical grout.
8. Work the resin into the Dry Oakum; similar to getting a sponge to soak up liquid.
9. Remove the saturated oakum from the grout pail. With a gloved hand, form a circle with the thumb and fore finger and pull the saturated oakum through the circle. Loosely grip the saturated oakum as it passes through the hand to remove excess surface resin without removing the resin that has saturated into the strand of oakum. **DO NOT WRING OUT!**
10. Dip the saturated oakum strip into the pail of clean water to initiate the chemical grouts reaction.
11. Immediately place the saturated / wetted strand of Dry Oakum into the crack, joint or annular space. A tool such as a screwdriver, punch, or metal rod may be used to facilitate saturated oakum placement.
12. Mist or spray additional water onto the surface of the saturated oakum. Use caution only to wet the surface and not to wash the resin out of the oakum.
13. Allow the chemical grout to fully react.
14. Repeat with additional strips as required to fill the entire area to be sealed.
15. Excess grout that expands out of the sealed area may be removed by mechanical means after the grout is fully cured. Use caution not to dislodge the newly formed seal.

Revised 01/2013

www.deneef.com

Technical Service 1-800-732-0166

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the users' consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright. W. R. Grace & Co.-Conn., 62 Whittemore Avenue, Cambridge, MA 02140.

In Canada, Grace Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

This product may be covered by patents or patents pending.

DN-050

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GRACE

TECHNICAL INFORMATION

ACCESSORIES

PRODUCT NAME

Dry Oakum

Jute Oakum

MANUFACTURER

De Neef Construction Chemicals, Inc.
5610 Brystone
Houston, TX 77041
1(800) 732-0166

PRODUCT DESCRIPTION

De Neef's **Dry Oakum** is a dry, twisted, jute oakum made in rope form without tar or oil. De Neef's **Dry Oakum** is backed by laboratory and field research that has made it tops in quality, easy to handle and convenient to use. For many applications with **HYDRO ACTIVE**[®] grouts, **Dry Oakum** will save time and money, since it is made to pack solidly in minimum time. Double-yarn construction permits easy division of strands for use on small sealing applications.

Dry Oakum conforms to Federal Specification HH-P-117 as published in the Federal Standard Stock Catalogue, Section IV Part 5. HH-P-117 was approved by the Director of Procurement on November 5, 1940 for the use of all departments and establishments of the Government. Copies are available from the Superintendent of Documents, Washington, D.C. The specification covers twisted jute packing only. **Dry Oakum** is made from thoroughly carded jute fiber and is practically free from hard, coarse fibers and extraneous matter. It is prepared in rope form with eight strands having a twist of approximately 1.25 turns per foot. Diameter is approximately two inches, weight is approximately 0.4 lbs. per foot and strand diameter is approximately 1/2 inch.

APPROPRIATE APPLICATIONS

- Sealing joints and cracks
- Filling annular spaces
- Slowing water flow prior to injection

ADVANTAGES

- Natural jute fibers
- Rapid absorbency
- No added oils or tar

PACKAGING

Dry Oakum is sold and shipped in 50/lb. coils in cardboard containers. When fully unwound, a 50/lb. coil will yield approximately 1000 l.f. of 1/2" diameter rope. The very loose weave allows rapid absorption of **HYDRO ACTIVE**[®] grout in addition to ease of separation for insertion in small crevices.

LIMITATIONS

Wide cracks and joints sealed with urethane saturated **Dry Oakum** may require additional injection to achieve a complete seal if excessive pressures or water flow exist.

INSTALLATION PROCEDURES

1. Clean joint to expose clean concrete surface.
2. Cut **Dry Oakum** into workable strips - normally 2-3 ft. in length.
3. Loosen fiber with hands to enhance material penetration.
4. Submerge **Dry Oakum** into **HYDRO ACTIVE**[®] Grout.
5. While removing from container, wipe excess material from **Dry Oakum**.
6. Wet joint with water to prime joint surface for saturated **Dry Oakum**.
7. Dip saturated **Dry Oakum** into water to start catalyzation.
8. Place saturated **Dry Oakum** in joint.
9. Spray visible saturated **Dry Oakum** surface.
10. If necessary, cut excess from surface of joint after cure.

STORAGE & HANDLING

Store in dry conditions.

PRECAUTIONS

Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest. Refer to Material Safety Data Sheet for detailed safety precautions.

SAFETY INFORMATION

In the event of an EMERGENCY call:
CHEM-TREC 800-424-9300.

WARRANTY INFORMATION

De Neef Construction Chemicals, Inc. products are warranted under the policy set forth under the WARRANTY section of the De Neef Construction Chemicals Inc., product catalog. Warranty information can also be obtained via the De Neef Construction Chemicals Inc. website at www.deneef.com, or by calling 713-896-0123 or toll free at 1-800-732-0166.

Rev. 10/2006

CHEMICAL RESISTANCE OF TYPICAL POLYURETHANE FOAMS

CODE

E = Excellent resistance

G = Good resistance

F = Fair resistance

P = Poor resistance

S = Severe solvent action or chemical attack, not recommended for use

ACTIVE MATERIAL	E	G	F	P	S
Acetic Acid 2%		■			
Acetone				■	
Ammonium Hydroxide Concentrate		■			
Ammonium Hydroxide 10%	■				
Ammonium Sulfate 2%	■				
Anylacetate		■			
Benzene	■				
Benzene Chloride	■				
Brine Saturated	■				
Brine 10%	■				
Butanol	■				
Butylacetate		■			
Carbon Tetrachloride	■				
Diesel Oil	■				
Diisobutylene	■				
Diisobutylketone	■				
Ethylacetate			■		
Ethyl Alcohol		■			
Ethylene Glycol 100%		■			
Formaldehyde		■			
Gasoline	■				
HCL 25%	■				
Hexane	■				
Hydrochloric Acid Concentrate		■			
Hydrochloric Acid 10%	■				
Hydrogen Sulfide 100% (wet)	■				
Hydrogen Sulfide 80% (wet)	■				
Isopropanol	■				
JP-4 Fuel	■				
JP-5 Fuel	■				
Kerosene	■				

Linseed Oil	■				
Methyl Alcohol		■			
Methylene Chloride			■		
Methyl Ethyl Ketone				■	
Mineral Sprits	■				
Motor Oil	■				
NaOil 25%	■				
Nitric Acid Concentrate					■
O. Chlorobenzene		■			
Orthodichlorobenzene	■				
Potassium Chlorate 5%	■				
Potassium Hydroxide 1%	■				
Sodium Hydroxide Concentrate	■				
Sodium Hydroxide 10%	■				
Styrene	■				
Sulfuric Acid Concentrate					■
Sulfuric Acid 10%	■				
Toluene	■				
Trichloroethylene		■			
Turpentine	■				
Varsol	■				
Water	■				
Xylene	■				

EFFECTS OF RADIATION ON POLYURETHANE

BASE MATERIAL: Stable up to 2×10 to the power of 8 rads.
Reference: EPRI-NP-2129

FOAMED MATERIAL: No reduction in chemical properties up to the power of 9 rads

Time of exposure: 26 weeks