



PRODUCT DATA SHEET

Sikalastic® P 281 FS

(formerly MSeal P 281FS)

MEDIUM VISCOSITY METHYL-METHACRYLATE PRIMER FOR POROUS CONCRETE AND LOW VOC REQUIREMENTS.

PRODUCT DESCRIPTION

Sikalastic® P 281 FS is a solvent free, 3-component medium viscosity methyl methacrylate (MMA) primer for use with the Sikalastic® Vehicular Traffic 2900 and Sika®Emaco-6000 methacrylate repair mortar. Sikalastic® P 281 FS has superior adhesion to concrete and is ideal as a primer for porous concrete surfaces. Sikalastic® P 281 FS is a Low-VOC material.

USES

Sikalastic® P 281 FS may only be used by experienced professionals.

- Stadiums
- Parking Garages
- Plaza Decks
- Loading Docks
- Garbage Rooms
- Commercial Construction
- Building and Restoration

For use as a primer with Sikalastic® Vehicular Traffic 2900 system and as a primer for Sika®Emaco-6000.

PRODUCT INFORMATION

| | |
|-------------------|--|
| Packaging | 4.5 gallon (17 L) pail |
| Color | Clear Amber with Sikalastic 908 FS Additive |
| Shelf Life | 2 years when properly stored |

Storage Conditions Keep stored in cool, dry environment, and out of direct sunlight

Solid Content 100%

Viscosity 220 - 330 cps ASTM C2393

TECHNICAL INFORMATION

Shore D Hardness 83 ASTM D2240

Tensile Strength 4,250 psi ASTM D638

Elongation @ Break 3% ASTM D638

Water Absorption < 0.1% ASTM D570

APPLICATION INFORMATION

Mixing Ratio Mixing Chart shows amount of Sikalastic® 918 FS (in volume ounces) added to one (1) gallon of Sikalastic® P 281 FS mixed 3:1 with Sikalastic®-908 FS. Sikalastic® 918 FS is the catalyst for Sikalastic® P 281 FS at all temperatures

| °F (°C) | Sikalastic® 918 FS (fl. oz.) |
|----------------|-------------------------------------|
| °30 (°-1) | 14.5 |
| °33 (°1) | 14.0 |
| °35 (°2) | 13.5 |
| °40 (°4) | 13.0 |
| °45 (°7) | 12.5 |
| °50 (°10) | 11.5 |
| °55 (°13) | 10.0 |
| °60 (°16) | 9.0 |
| °65 (°18) | 8.0 |
| °70 (°21) | 7.0 |
| °76 (°24) | 6.0 |
| °80 (°27) | 5.5 |
| °85 (°29) | 5.0 |
| °90 (°32) | 4.5 |

Coverage All coverage rates are approximate. Coverage rates will vary with the profile/porosity of substrate. Typically, a gallon of Sikalastic® P 281 FS will achieve a coverage rate of 100 ft² (9.3 m²). Minimum of 16 mils per gallon.

SYSTEM INFORMATION

Systems Sikalastic® Vehicular Traffic 2900
SikaEmaco S6000

BASIS OF PRODUCT 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.

LIMITATIONS

- If a vapor drive is present or suspected, please consult

with your local Sika representative prior to system application.

- Not for use at application temperatures over 90° F (32° C) or below 30° F (-1 ° C).
- Not for use in areas exposed to strong solvents (consult Sika Technical Service).
- Install at recommended thickness to ensure proper curing and leveling.
- Each application must be completely cured and return to ambient temperature prior to the next application.
- Use clean pails when mixing to avoid the possibility of

improper curing.

- Proper air flow is critical to curing MMA materials. The use of fans is mandatory where airflow is restricted.
- Sika is available to assist you in the selection of the proper system. Call for inhouse and field technical assistance.
- Make certain the most current versions of product data sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.
- It is critical that the instructions listed in the Safety Data Sheet for every component of the system be read, understood, and followed. MMA resins are flammable liquids in their uncured state.
- Smoking, open flames or sparks should not be permitted during the handling of the product.
- Explosion safe ventilation must be used during the application to minimize vapor collection in the installation area and to improve overall air quality for the crew.
- The minimum application temperature is 30 °F (-1 °C).
- Do not apply to concrete that is outgassing.
- Warm temperatures should not shorten working time, unless its above the maximum temperature recommended.
- Concrete should have a minimum compressive strength of 3,000 psi (21 MPa) and be cured for a minimum of 28 days.
- Do not apply Sikalastic® P 281 FS to concrete slabs on grade, unvented metal pan decks, or split slab applications with a waterproofing membrane between slabs. Contact Sika Technical Services.
- Be sure to allow for movement in the deck by the proper design and use of expansion and control joints.
- Contact Technical Service when substrates are over 90 °F (32 °C) or under 30 °F (-1 °C) or when applying to decks containing between slab membranes.
- The best method to ensure the proper wet film thickness is the use of a grid system. Divide the surface to be coated into grids and calculate the square footage of each. Refer to the coverage chart to determine the quantity of coating needed for each grid to arrive at the required mil thicknesses.
- Avoid application when inclement weather is present or imminent.
- Do not apply to damp, wet, or contaminated surfaces. Not suitable for use where chained or metal-studded tires will be used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.
- CAD & PDF deck coating details are available for download from our website, Sika Customer Support can direct you to the site.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding

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transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete

Concrete must be fully cured (28 days), structurally sound, clean, and dry (ASTM D 4263). All concrete surfaces (new and old) must be shot blasted to remove previous coatings, laitance, and all miscellaneous surface contamination and to provide a profile for proper adhesion. Abrasive shot blasting must occur after concrete repair has taken place. Acid-etching is not permitted. The proper profile should be a minimum of ICRI CSP3 (as described in ICRI document 310.2R - 2013.) For balconies and other pedestrian areas with limited space or access to shot-blasting, alternative mechanical methods can be used to achieve the recommended surface profile.

- Repair voids and delaminated areas with SikaEmaco®-6000. When time permits, SikaEmaco®-1060 or SikaEmaco®-1060 EX may be used for repair purposes. Wait 24 hours before applying the Sikalastic® Vehicular Traffic 2900 system.
- Prime with Sikalastic® P 281 FS before applying SikaEmaco®-6000. Measure 3 quarts of resin and 1 quart of Sikalastic®-908 FS into the pail and add the proper amount of powder hardener. See the mixing chart below. Mix with a drill mixer for 45 seconds or until the powder hardener is completely dissolved.
- Apply primer at approximately 100 ft² (9.3 m²) per mixed gallon.

MIXING

Sikalastic® P 281 FS add 3 quarts of Sikalastic® P 281 FS and 1 quart of Sikalastic®-908 FS into pail. Blend for about 30 seconds. Add the appropriate amount of Sikalastic®-918 FS powder hardener to the liquids based on temperature. Mix for 45 seconds or until the Sikalastic®-918 FS is completely dissolved.

See Mixing Ratio chart for the required amount of Sikalastic®-918 FS (in volume ounces) for one-gallon mixed resin, based on temperature.

APPLICATION

Apply the properly mixed primer to the properly prepared substrate at approximately 100 sq ft per gallon or 16 mils. Allow the primer to cure tack-free for an even, satin like matte finish. Re-prime any dry spots.

CURING TREATMENT

Sikalastic® P 281 FS fully cures within one hour when properly installed.

CLEANING OF TOOLS

Clean tools with Sikafloor®-100 CLN Pronto, an MMA solvent. Other solvents such as xylene or acetone may also be used. Collect and dispose of all site waste.

MAINTENANCE

MAINTENANCE

See Sikalastic® Traffic maintenance technical bulletin. Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance, and reduce any tendency to retain dirt.

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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