

SYSTEM DATA SHEET

Sikafloor® Pronto 1817 PC

FAST-CURING, SOLVENT FREE, METHYL-METHACRYLATE BASED POLYMER CONCRETE FOR PATCHING AND OVERLAYS

PRODUCT DESCRIPTION

Sikafloor® Pronto 1817 PC is a methyl-methacrylate (MMA) polymer concrete system designed for a multitude of applications that require a fast-curing, high strength material. Sikafloor® Pronto 1817 PC consists of two components: a liquid methacrylate based resin; and powder component consisting of sand, inert fillers, polymers, pigments and powder hardener. Sikafloor® Pronto 1817 PC is used for thin patches, overlays and grouting, or is filled with coarse aggregate and used for deep patches in slabs. The unique fast cure and durability make the Sikafloor® Pronto 1817 PC suitable for concrete restoration projects, including repairing and rebuilding deteriorated concrete surfaces.

USES

Sikafloor® Pronto 1817 PC may only be used by experienced professionals.

- Industrial flooring overlays/patches
- Repair of cracked, spalled and eroded concrete
- Rebuild joints and deteriorated concrete surfaces
- Shimming and high strength grouting
- Sloping of floors for 4"+ down to 1/4"

CHARACTERISTICS / ADVANTAGES

- Fully cures in one hour, reducing downtime for a quick return to service
- High strength is ideal for repairing and rebuilding deteriorated concrete surfaces
- Can be extended up to 125% with clean, dry aggregate to reduce cost and installation time
- Can be installed in a variety of thicknesses, offering design flexibility for numerous applications
- Can be applied at temperatures down to -20 °F (-29 °C) to meet a wide range of application and timing requirements. Please contact your Sika Flooring Technical Support for any applications below freezing.

PRODUCT INFORMATION

Packaging	Refer to the current price list for available packaging variations
Shelf Life	Always refer to the best-before date of the individual packaging
Storage Conditions	For best performance, keep material stored indoors in a cool (below 80°F), dry environment, protected from damage and moisture, out of direct sunlight. Do not store near food, open flame or ignition source. Read and understand all product labels and Safety Data Sheets prior to use.

TECHNICAL INFORMATION

Modulus of Elasticity in Compression	0.8 x 10 ⁶ psi	(ASTM C 469)
Tensile Strength	1,000 psi	(ASTM D 638)
Coefficient of Thermal Expansion	18 in/in/°F x 10 ⁻⁶	(ASTM C 531)
Water Absorption	0.02% / 24 hrs	(ASTM D 570)

APPLICATION INFORMATION

Coverage	Description	Products	Approximate Sq.Ft./batch
	Primer	Sikafloor®-41 P Pronto + Sikafloor®-103 IN Pronto	100/gal
	Polymer Concrete	Sikafloor®-17 RS Pronto PT A + Sikafloor®-17 RS Pronto PT B	12.5 sq.ft @ 1/4" / mix

All coverage rates are approximate. Coverage rates will vary with the desired texture and porosity of substrate along with application/extension of Sikafloor® Pronto 1817 PC. Please refer to the Sikafloor® Pronto Mixing Chart for further information.

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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding 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

HOW TO APPLY

Every Sikafloor® Pronto flooring system is a multiple component system that utilizes a methyl-methacrylate (MMA) resin. It is critical that the Material Safety Data Sheet for every component of the system is read and understood. MMA resins are flammable liquids in their uncured state. Smoking, open flames, or sparks should not be permitted while handling 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. All foodstuffs must be removed during installation of the flooring system. Sikafloor® Pronto systems are installed by approved contracting firms. The following is only a summary of the installation

techniques used by Sikafloor® Pronto approved contractors.

SURFACE PREPARATION

1. Floors must be structurally sound and fully cured a minimum of 28 days. Conduct quantitative moisture testing in accordance with ASTM F2659-10 utilizing Tramex type impedance moisture meter. Please contact Sika Flooring Technical Support if the Tramex reading is over 4%.
2. Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
3. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with manufacturer's instructions.
4. Mechanical surface profiling is the method of surface preparation for both new and existing floors. Mechanically profile the floor to CSP-4 or greater as described by the International Concrete Repair Institute. Do not use acid etching for surface preparation. Do not use any method that will fracture the concrete.
5. Bond tests should be performed once a small area has been mechanically profiled, so any adjustments can be made to the surface preparation process. Bond tests should be repeated every 500-1,000 ft² (46.5 - 93 m²). Please refer to Bond Test Instruction Guide for further information.
6. Cracks wider than 1/16" (1.6 mm) should be "chased out" and opened during surface preparation. Any existing joints should be treated according to project specifications. Please refer to Joint Repair Guide for further information.
7. Areas around drains and other floor fixtures need to be ground and/or chipped to a depth between 1/2" - 3/4" (12.7 - 19 mm) and tapered back 3" - 6" (7.6 - 15.2 cm) away from drain (Refer to Sikafloor® Pronto Detail Drawing CB-27.3).
8. Termination points should be saw cut to a depth of 1/4" (6.4 mm) and tapered back (Refer to Sikafloor® Pronto Detail Drawing CB-27.2).

MIXING

(Refer to Sikafloor® Pronto Mixing Chart for exact batch sizes and measurements)

SIKAFLOOR®-41 P PRONTO PRIMER

Measure resin and Sikafloor®-103 IN Pronto into pail and add proper amount of Sikafloor®-100 HD Pronto. Mix with drill mixer for 15-30 seconds or until the

Sikafloor®-100 HD Pronto is completely dissolved. Please contact Sika Flooring Technical Support if Sikafloor®-51 P Pronto Primer is required.

APPLICATION

Every Sikafloor® Pronto flooring system is a multiple component system that utilizes a methyl-methacrylate (MMA) resin. It is critical that the instructions listed in the Safety Data Sheet and on the product label 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. All foodstuffs must be removed during installation of the flooring system.

PRIMER

Apply the properly mixed Sikafloor®-41 P Pronto resin to the properly repaired concrete or properly prepared aged coating at approximately 100 ft² (9.3 m²) per gallon. Allow primer to cure tack-free to an even, satin-like gloss. Re-prime any dry spots.

POLYMER CONCRETE

Please refer to polymer concrete mixing and extension guideline on the back of the Sikafloor® Pronto Mixing Chart. Measure Sikafloor®-17 RS Pronto Part A into a 5 gallon pail. Add 1 bag of Sikafloor®-17 RS Pronto Part B powder and mix using a spiral mixing blade for 30 - 45 seconds or until a homogenous mixture is obtained.

NOTE: If you need to extend the batch, add the clean, dry, approved aggregate in the proper amount to the Part A resin prior to adding the Part B powder.

Sikafloor® Pronto 1817 PC must be re-primed prior to installing a Sikafloor® Pronto MMA system over it.

DRYING TIME

All components of the Sikafloor® Pronto 1817 PC flooring system fully cure within one hour when properly installed.

CLEANING OF TOOLS

Clean tools as needed with Sikafloor®-100 CLN Pronto. Collect and dispose of all site wastes according to appropriate regulations.

MAINTENANCE

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FOR BEST PERFORMANCE

- Please contact Sika Flooring Technical Service for applications over 90°F (32°C).
- Not for use in areas exposed to strong solvents (consult Sika Flooring Technical Service).
- Install at recommended thickness to ensure proper curing and leveling.
- Each application must be completely cured prior to the next application.
- Protect or remove food items prior to application to avoid any possible contamination.
- Use clean pails when mixing to avoid the possibility of improper curing. Swap out as needed.
- Proper air flow is critical to curing MMA materials. The use of fans is mandatory where airflow is restricted.
- Apply a bond test every 500 - 1,000 ft² (46.5 - 93 m²) prior to floor installation.
- 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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

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 the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL 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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