

Product Data Sheet
Edition 7.7.2010
Sikafloor® Pronto 16

Sikafloor® Pronto 16

Methyl Methacrylate Topcoat System

Description Sikafloor Pronto 16 is a two component, reactive acrylic coating based on methyl methacrylate (MMA). Sikafloor Pronto 16 is designed to be used as the topcoat of Sikafloor Pronto MMA based flooring systems. Sikafloor Pronto 16 provides protection from mechanical, thermal, chemical, and UV exposure. Sikafloor Pronto 16 can be applied as a clear or pigmented topcoat.

Where to Use

- Automotive Dealerships
- Food & Beverage Processing
- Manufacturing
- Animal Clinics
- Pharmaceutical Facilities
- Supermarkets
- Coolers and Freezers
- Retail Sales Spaces
- Sports Facilities, Concourses, Locker rooms, Concessions

Advantages

- 100% Reactive
- UV Resistant
- Abrasion and scratch resistant
- Low viscosity
- Superb chemical, mechanical, and thermal resistance
- Fast cure time - under 1 hour
- Repairs seamlessly

Chemical Resistance Before applying for protection against specific chemical environments, consult Sikafloor Pronto Chemical Resistance Guide or contact Sika Technical Services at 800-933-SIKA (7452).

Typical Data

Colors	16 standard colors available with use of Sikafloor Pronto Pigments
Coverage	80 - 100 sq. ft. per gallon (1.96m ² - 2.45m ² /L)
Dry Film Thickness	16 - 18 mils (0.38 mm-0.46 mm)
Pot Life	Approx. 10-15 minutes @ 75°F (23.8°C).
Thinner	DO NOT THIN
Shelf Life	Maximum 12 months in unopened containers @ 65°F - 75°F (18.3°C - 23.8°C).
Cure Time	35 - 60 minutes
Recoat Time	35 - 60 minutes

Packaging: Sikafloor Pronto 16 Part R is packaged in 40.8 lb. (18.5 kg.) pails which contain 5 gallons (18.9 L) Drums 400 lb. (180 kg) which contain 49 gallons (185 L). Sikafloor Pronto Part H is packaged in a 55 lbs. (25 kg.) cardboard box.

Shelf Life: Maximum 12 months in unopened containers @ 65°F - 75°F (18.3°C - 23.8°C).

Storage Conditions: Sikafloor Pronto 16 should be stored in a cool, dry area out of direct sunlight. The materials should be stored between 65°F and 75°F (18.3°C - 23.8°C) for 24 hours prior to use for optimum handling properties. Do not store near open flame or an ignition source. The cans should maintain an airtight seal.

Product Conditioning: Condition product to application temperature prior to use.

Type Test	Test Method	Typical Value
Percent Reactive Resin		100%
Density, lbs/gal	ASTM D1475	8.1lbs./gal (0.98 kg./L)
Water Absorption	ASTM D570	< 0.6%
Tensile Strength	ASTM D638	3500 psi (24.1 N/mm ²)
Tensile Modulus	ASTM D638	210,000 psi (1448 N/mm ²)

Industrial Flooring

Sika®

How to Use

Surface Preparation

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, 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 and contaminant free, open textured surface by shot blasting or equivalent mechanical means. (CSP-3 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. It is also possible that the texture of the shot-blast pattern may show through the last coat. This is known as "tracking". The compressive strength of the concrete substrate should be at least 3500 psi (24 MPa) at 28 days and at least 250 psi (1.7 MPa) in tension at the time of application of Sikafloor Pronto 13. Refer to Sikafloor MMA Detail Drawings for specific termination, joint, and cove base details.

Priming

Sikafloor Pronto 13 Primer must be used prior to the application of Sikafloor Pronto 16. Consult Sikafloor Pronto 13 Technical Data Sheet for specific instructions on priming.

Mixing

Always pre-mix pails or drums of Sikafloor Pronto Part R products prior to pouring off into smaller mixes. Failure to do so will result in improper cure. Prior to mixing, record air and substrate temperature. Also record substrate moisture content, atmospheric relative humidity and dew point. It is important to remember that this coating has a limited pot life. Ensure that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence. If a color is desired or specified, add 4 fl. oz. of Sikafloor Pronto Pigment per gallon of Sikafloor Pronto 16 Part R. The addition of 1.5 lbs. or approximately 16 fl.oz./gallon of 350 mesh pulverized silica flour is highly recommended to aid in opacity and color stability and uniformity when using Sikafloor Pronto 16 as a pigmented topcoat. Mix pigment thoroughly with a drill (350-450 rpm) and jiffy mix paddle for a minimum of 60 seconds until color is uniform in the pail prior to adding the silica flour and Sikafloor Pronto Hardener Part H as described below. Sikafloor Pronto 16 Part R must be mixed with appropriate amounts of Sikafloor Pronto Hardener Part H with a drill (300-450 rpm.) and jiffy mix paddle immediately before application. Mix one (1) gallon Sikafloor Pronto 16 Resin with the following amounts of Sikafloor Pronto Hardener:

23°F - 32°F (-5°C- 0°C) 10 -8 fl. oz per 1 gallon Sikafloor Pronto 16
 32°F - 50°F (0°C- 10°C) 8-6 fl. oz per 1 gallon Sikafloor Pronto 16
 50°F - 68°F (10°C- 20°C) 6-4 fl. oz per 1 gallon Sikafloor Pronto 16
 68°F - 86°F (20°C- 30°C) 4-2 fl. oz per 1 gallon Sikafloor Pronto 16

Sikafloor Pronto 16 components should only be mixed just prior to application and used immediately.

Application

In order to ensure optimum curing during internal applications the air must be exchanged at least seven times per hour. During application and curing use a forced fresh air supply/exhausting of fumes with appropriate equipment (explosion proof). Systems based on reactive acrylic resins exhibit a characteristic odor during application and prior to achieving full cure. Once fully cured they are odor free. All unpackaged goods should be removed from the work area during application. Do not apply in the presence of foodstuffs. Any foodstuffs, whether packaged or not, should be completely isolated from the work area during the application process and until the products are fully cured. Begin application at one end of the room by pouring entire contents of mixed material in the form of a ribbon on the surface to be coated parallel with the starting point. Cut in edges using small brushes or rollers. Immediately roll out material laterally across the application area using a 9" or 18" solvent resistant roller at 80 - 100 sq.ft./gallon (1.96m² - 2.45m²/L) (15 - 18 wet mils). Use a high quality solvent resistant 3/8" roller cover to spread the material. The material cures very quickly and therefore application must be carried out steadily and "wet on wet" in order to achieve joint free floors. Freshly applied Sikafloor Pronto 16 must be protected from damp, condensation and water for at least 1 hour.

Coverage

80 - 100 sq.ft./gallon (1.96m² - 2.45m²/L) @ approximately 15 - 18 mils

Limitations

- Never apply in direct sunlight or at surface temperatures above 90°F (32° C) or below 30° F (-1° C).
- Constant exposure to hot water should not exceed 185° F (85° C).
- Not recommended for areas constantly or frequently exposed to water. Continued exposure to water will gradually fade and cloud finish. Use Sikafloor Pronto 17 for these areas.
- Do not apply Sikafloor Pronto 16 directly to a neat coat of Sikafloor Pronto 15. Sikafloor Pronto 15 must be seeded with a silica sand or decorative quartz aggregate before topcoat is applied. Failure to do so will result in spider cracking of the top coat. Maximum relative humidity: RH levels are not an issue provided surface temp is at least 5° F (3° C) above the dew point and surface is clean and dry.
- Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 3 pounds per 1,000 ft² per 24 hours. Determine the surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4% by mass or less. If over, use Sikafloor EpoCem 81/82
- Do not thin this product.

Caution	COMPONENT R: DANGER: FLAMMABLE, IRRITANT, SENSITIZER. Contains Methyl Methacrylate (CAS: 80-62-6), 2-Ethylhexyl Acrylate (CAS: 103-11-7) and Dipropoxy-p-Toluidine (CAS: 38668-48-3). 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. Eye/skin/respiratory irritant. May cause skin sensitization. Inhalation can result in headaches and dizziness. Harmful if swallowed. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. COMPONENT H: DANGER: OXIDIZER, IRRITANT, SENSITIZER. Contains Peroxide, dibenzoyl (CAS: 94-36-0). Causes eye/skin irritation. May cause respiratory irritation. May cause skin sensitization. Harmful if swallowed.
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 R: Keep away from heat, sparks, sunlight, electrical equipment or 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 65° F and 75°F 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 H: Keep products in original container. Store in cool, dry well ventilated area. keep away from material or conditions listed in conditions to avoid. Do not grind or subject peroxide to frictional heat or shock. Do not add peroxide to hot reaction mixtures. Do not transfer to rigid containers with tight or screw-on closures. Do not allow peroxide to dry out, as the material will become friction sensitive. Wear protective equipment and/or garments list for personal protective equipment. Avoid inhalation and skin and eye contact. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Dispense and transfer in an area separate from storage area. The addition of accelerators from polymerization may result in vigorous decomposition. Store below 100 F. Do not return to original container.
Clean Up	COMPONENT R: In case of spill, eliminate all ignition and heat sources. 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 H: Evacuate area of all unnecessary personnel. Wear protective equipment and/or garmets described in PPE if exposure conditions warrant. keep out of water sources and sewers. Carefully collect the material and transfer to polyethylene-lined disposal containers. Do not allow benzoyl peroxide to dry out; add water if necessary.
Additional Info	Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on www.sikafloorusa.com . Proper material application is the responsibility of the user. Site visits made by Sika personnel are for making technical recommendations only and not for supervising or providing quality control.

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.sikacorp.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 Technical Data Sheet, product label and Material Safety Data Sheet which are available online at www.sikafloorusa.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 Technical 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 Technical 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. 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.**

Visit our website at www.sikafloorusa.com

1-800-933-SIKA NATIONWIDE

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

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

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
Fax: 52 442 2250537

