

PRODUCT DATA SHEET

Sikafloor®-13 Pronto

Methyl Methacrylate Primer

PRODUCT DESCRIPTION

Sikafloor®-13 Pronto is a two component, reactive acrylic primer, based on Methyl Methacrylate (MMA) chemistry. It's low viscosity and excellent strength allow it to penetrate and reinforce concrete substrates. Applying this fast-curing primer to properly prepared concrete is the first step to the installation of all Sikafloor Pronto MMA based flooring systems.

USES

Sikafloor®-13 Pronto may only be used by experienced professionals.

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

CHARACTERISTICS / ADVANTAGES

- Low viscosity, penetrating
- Fast cure time under one hour
- 100% Reactive
- UV Resistant
- Repairs seamlessly

PRODUCT INFORMATION

Chemical Base	Before applying for protection against specific chemical environments, consult Sikafloor Pronto Chemical Resistance Guide or contact Sika Technical Services.		
Packaging	Part R	5 gallon (18.9L.) 49 gallon. (185L)	
	Part H	50 lbs. (22.7 kg) packaged cardboard box.	
Appearance / Color	Part R	Transparent, liquid	
	Part H	White, powder	
Shelf Life	Maximum 12 months in unopened containers at 65°F - 75°F (18.3°C - 23.8°C)		
Storage Conditions	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.		
Density	~8.15 lbs./gal. (0.98kg/L)		ASTM D1475 at 73°F(23°C) and 50% R.H
Solid content by weight	~ 100%		
Solid content by volume	~100%		

TECHNICAL INFORMATION

Tensile Strength	3660 psi. (25.23 N/mm ²)		ASTM D638
	3.9 x 10 ⁵ psi. (2689 N/mm ²) Modulus		at 73°F(23°C) and 50% R.H
Water Absorption	0.6%		ASTM D570 at 73°F(23°C) and 50% R.H

APPLICATION INFORMATION

Thinner	Not Recommended		
Coverage	100 sq.ft./gallon, (2.4m ² /L), or approximately 16 mils on properly prepared concrete. Coverages will depend on porosity of concrete.		
Ambient Air Temperature	14 °F(-10 °C) min. / +86 (+30 °C) max.		
Relative Air Humidity	80 % r.h. max.		
Dew Point	The substrate and uncured floor must be at least 5°F (-15 °C) above dew point to reduce the risk of condensation or blooming on the floor finish.		
Substrate Temperature	14 °F(-10 °C) min. / +86 (+30 °C) max.		
Substrate Moisture Content	≤ 4 % pbw moisture content. Test method: Tramex CMEX II, CM		
Pot Life	Temperature	Time	
	75°F (23.8°C)	~ 10-15 minutes	
Cure Time	Temperature	Minimum	Maximum
	75°F (23.8°C)	35 minutes	60 minutes

Temperature	Minimum	Maximum
75°F (23.8°C)	35 minutes	60 minutes

Critical Recoat Time

Sikafloor Pronto MMA products do not have a maximum re-coat window. It is critical however that the primer remain clean and traffic be prohibited before the subsequent coating is applied.

APPLICATION INSTRUCTIONS**SURFACE PREPARATION**

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit a good bond.

Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI - CSP 3-6. The compressive strength of the concrete substrate should be at least 3,625 psi (25 MPa) at 28 days and a minimum of 218 psi (1.5 MPa) in tension at the time of application.

Repairs to cementitious substrates, filling of blowholes, leveling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika Technical Service for a recommendation.

Bond Test

A bond test should be conducted to determine the sufficiency of the surface preparation and the bond of the primer to the substrate before application. The bond of the primer to the substrate should be greater than the tensile strength of the substrate itself. Additional preparation may be needed if only a fine laitance or small amount of concrete is attached.

If there is evidence of poor bonding between the properly prepared concrete and the Sikafloor®-13 Pronto primer, it may indicate that the concrete has been fortified with materials that inhibit MMA bond. Consult Sika Technical Services for further or alternate recommendations.

Bond Test Instructions

- Mix approximately 8 ounces of Sikafloor Pronto 13 with a 1/2 ounce of Sikafloor Pronto Hardener (slightly more or less depending on the substrate temperature) and mix for 30 seconds using a drill jiffy mixer (300-450 rpm).
- Apply primer with a brush over an area approximately 4-6 square feet (0.5 square meters)
- After 60 minutes, the primer should not be sticky and must not be able to be removed by scratching with either a knife or screwdriver.
- If primer remains tacky, this may indicate the presence of a contaminate in the concrete. If additional surface preparation does not resolve the bond test issue, contact Sika Technical Services at 800-933-SIKA (7452).

MIXING

Always pre-mix pails or drums of Sikafloor®-13 Pronto Part R products prior to pouring off into smaller mixes. Failure to do so will result in improper cure. It is important to remember that this primer 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.

Sikafloor®-13 Pronto must be mixed with appropriate amounts of Pronto Hardener using a drill (300-450 rpm.) and a jiffy mix paddle for a minimum of 60 seconds immediately before application.

Sikafloor Pronto Hardener Dosing Chart

Use the below amounts of Pronto Hardener per one gallon of Sikafloor®-13 Pronto in accordance with the temperature as shown below:

Temperature	Pronto Hardener per gallon
14-32°F (-10 -0°C)	14-10 fl.oz
32-50°F (0-10 °C)	10 -8 fl.oz.
50-68°F (10-20°C)	8-6 fl.oz.
68-86°F (20-30°C)	6-4 fl.oz.

The use of accurately graduated measuring containers are required to ensure correct proportioning of all components. Mixing is done in small batches using an electric drill equipped with a jiffy type mix paddle

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 natural bristle chip brushes. Immediately roll out material laterally across the application area using a 9" or 18" solvent resistant roller at 100 sq.ft./gallon (15 – 16 wet mils). Do not allow primer to "puddle" or "pond". Use a brush to remove excess material from joints and rough areas.

Allow Sikafloor Pronto 13 to completely cure and reprime any dry spots. If the primer is absorbed by the substrate and there are visible dry spots, a second coat of Sikafloor Pronto 13 must be applied. The priming process should continue until there is a visible coat of cured primer on the concrete substrate.

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).
- For slab on grade applications a water vapor barrier membrane should be in place.
- Maximum relative humidity: RH levels are not an issue provided surface temp is at least 5° (3°) 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 22 NA PurCem or Sikafloor-24 NA PurCem, broadcast to rejection with Sikadur 508 aggregate to a minimum thickness of an 1/8". Refer to specific Technical Data Sheets for instructions.
- Do not thin this product.

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.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

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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