

SYSTEM DATA SHEET

Sikafloor® Pronto RB-1851 CF

METHYL-METHACRYLATE BASED, SELF-LEVELING FLOORING SYSTEM WITH DECORATIVE FLAKE BROADCAST

PRODUCT DESCRIPTION

Sikafloor® Pronto RB-1851 CF is a methyl-methacrylate (MMA) self-leveling flooring system for use in areas that require a quick curing, decorative floor. The quick installation process makes this flooring system ideal for food service, laboratories, health facilities or office buildings where minimal downtime is required.

Sikafloor® Pronto RB-1851 CF is an impervious, seamless flooring system, where dirt and spills will remain on the surface and are easily removed by most regular cleaning procedures. Additionally, Sikafloor® Pronto RB-1851 CF never needs to be waxed or stripped, dramatically reducing your cleaning costs. The unique chemistry of the Sikafloor® Pronto RB-1851 CF system provides a full cure in one hour or less for each component and provides a permanent chemical bond between each coat.

USES

Sikafloor® Pronto RB-1851 CF may only be used by experienced professionals.

- Used to resurface and coat concrete floors
- Use where aesthetics are a concern
- Utilize clear aluminum oxide broadcast for areas that require a non-skid texture
- Pharmaceutical and Bio-Tech research
- Life Sciences
- Retail and Supermarkets
- Hospitals, health care, and medical research facilities
- Public assembly facilities and stadiums
- Restaurants - certified usage for the food industry and commercial kitchens
- Freezers, coolers, and refrigerated storage

- Restrooms, showers, lockers, and hydrotherapy facilities
- Dry process areas
- Packaging rooms
- Breweries and Wineries

CHARACTERISTICS / ADVANTAGES

- Fully cures in one hour, reducing downtime for a quick return to service
- Seamless, impervious floor system that is easy to sanitize, clean and maintain
- UV resistance that provides long term color performance
- Decorative flake broadcast provides an aesthetic texture that hides visible dirt
- Excellent chemical resistance for a wide range of applications
- No waxing or stripping required for maintenance dramatically reduces cleaning costs

SYSTEM INFORMATION

Color Transparent matte finish topcoat over broadcast floors when fully cured.

TECHNICAL INFORMATION

Water Absorption	Sikafloor®-41 P Pronto 0.06 %/24 hours	Sikafloor®-61 BC Pronto 0.05 %/24 hours	Sikafloor®-71 TC Pronto 0.04 %/24 hours	(ASTM D570)
Shore D Hardness	Sikafloor®-41 P Pronto 75	Sikafloor®-61 BC Pronto 70	Sikafloor®-71 TC Pronto 80	(ASTM D2240)
Abrasion Resistance	Sikafloor®-71 TC Pronto 54 mg loss, 1000 cycles, CS17 wheel			(ASTM D4060)
Compressive Strength	Sikafloor®-61 BC Pronto 6,000 - 8,000 psi (filled)			
Tensile Strength	Sikafloor®-41 P Pronto 3,550 psi	Sikafloor®-61 BC Pronto 1,050 psi	Sikafloor®-71 TC Pronto 3,555 psi	(ASTM D638)
Elongation at break	Sikafloor®-41 P Pronto 1.3%	Sikafloor®-61 BC Pronto 34%	Sikafloor®-71 TC Pronto 4%	(ASTM D638)
Service Temperature	180°F (83°C)			

APPLICATION INFORMATION

Coverage	Description	Products	Approximate Sq.Ft./batch
	Primer	Sikafloor®-41 P Pronto +	100/gal
	Self-Leveling BaseCoat	Sikafloor®-103 IN Pronto Sikafloor®-61 BC Pronto +	40 @ 1/8"/batch
	First TopCoat	Sikafloor®-100 SL Pronto Sikafloor®-71 TC Pronto	80 - 100/gal
	Second TopCoat	Sikafloor®-71 TC Pronto	100 - 125/gal
	Flake Blend	Sikafloor® Pronto Decorative Flake	6.54 ft ² / pound

All coverage rates are approximate. Coverage rates will vary with the desired texture and porosity of substrate.

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.

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BUILDING TRUST



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. Repair concrete as necessary. If any patching is required, Sikafloor® Pronto 1817 PC should be mixed and placed according to the Sikafloor® Pronto Installation Guide.
3. Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
4. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with manufacturer's instructions.
5. Mechanical surface profiling is the method of surface preparation for both new and existing floors. Mechanically profile the floor to CSP-4 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.
6. 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.
7. 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.
8. 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).
9. 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.

SIKAFLOOR®-61 BC PRONTO BASECOAT

Measure resin and Sikafloor® PGM 155 Pronto into a 5 gallon pail. Add 1 bag of Sikafloor®-100 SL Pronto powder and mix using a spiral mixing blade for 40-50 seconds, until a homogeneous mixture is obtained. Add proper amount of Sikafloor®-100 HD Pronto and mix for an additional 20 - 30 seconds.

SIKAFLOOR®-71 TC TOPCOAT

Measure resin 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.

Note: After mixing, apply immediately. There will be 7 to 15 minutes of working time, dependent on temperature and the amount of time the material sits in the bucket.

APPLICATION

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.

COVE BASE

If a cove base is to be installed, mix and apply according to the Sikafloor® Pronto "Cove Base Application Guide." Install cove base prior to installation of basecoat. Allow to cure.

SCRATCH COAT

Any rough areas or depressions less than 1/4" (6.4 mm) should receive a scratch coat of Sikafloor®-61 BC Pronto with Sikafloor®-100 SL Pronto to smooth and level these areas. Any drips or ridges over 1/16" (1.6 mm) should be ground or sanded smooth. Allow to cure.

BASECOAT

Apply the properly mixed Sikafloor®-61 BC SL Pronto basecoat at 40 ft² (3.7 m²) per batch, at 1/8" (3.2 mm) thickness. Backroll material with porcupine roller.

FLAKE BROADCAST

Immediately following basecoat backroll installation,

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broadcast flake into wet material. Even broadcast is best achieved by throwing handfuls of broadcast media towards ceiling and letting it "rain down" on surface. Broadcast until no wet spots are apparent on floor. Allow basecoat material to cure. Remove excess by sweeping with medium stiff broom. Follow with a thorough vacuum to remove all remaining excess flake.

TOPCOAT (1ST COAT)

Apply the properly mixed Sikafloor®-71 TC Pronto topcoat at approximately 80 - 100 ft² (7.4 - 9.3 m²) per gallon. Allow to cure. Sand first topcoat with flooring swing machine mounted with abrasive 80 grit sanding screen prior to next topcoat. Follow with a sweep and tight vacuum.

TOPCOAT (2ND COAT)

Apply second coat of properly mixed Sikafloor®-71 TC Pronto at approximately 100 - 125 ft² (9.3 - 11.6 m²) per gallon. Allow to cure.

DRYING TIME

All components of the Sikafloor® Pronto RB-1851 CF 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

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance and reduce any tendency to retain dirt. Follow the Sika Maintenance Guide to maximize the life of the floor.

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.
- Topcoat must be back-rolled immediately to ensure uniform finish.
- 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.

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