

SYSTEM DATA SHEET

Sikafloor® Pronto RB-1823 CQ

METHACRYLATE-BASED, FLEXIBLE, SELF-LEVELING FLOORING SYSTEM WITH QUARTZ BROADCAST FOR FREEZERS

PRODUCT DESCRIPTION

Sikafloor® Pronto RB-1823 CQ is a methyl-methacrylate (MMA) self-leveling flooring system. It is designed for use in areas that require a flexible system able to withstand operating temperatures found in freezers, coolers and cold warehousing. Sikafloor® Pronto RB-1823 CQ can be installed at temperatures down to -20° F (-29° C). The unique chemistry of the Sikafloor® Pronto RB-1823 CQ 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-1823 CQ may only be used by experienced professionals.

- Flooring system within freezers, coolers and cold warehousing
- Used to slope, resurface and coat concrete floors
- Use where aesthetics are a concern
- Use for areas that require a non-skid texture
- Commercial kitchens and restaurants
- Grocery stores
- Hospitals, medical research facilities, and morgues
- Public assembly facilities and stadiums

CHARACTERISTICS / ADVANTAGES

- Fully cures in one hour, reducing downtime for a quick return to service
- Can be applied at -20° F (-29° C) to meet a wide range of application and timing requirements. There is no need to turn off freezer for installation.
- Flexible system that can be subjected to movement from freeze/thaw cycles
- Quartz broadcast provides an aesthetic, non-skid texture
- NSF Registered for incidental food contact (R2)

SYSTEM INFORMATION

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

TECHNICAL INFORMATION

| | | | |
|----------------------------|---|--|--------------|
| Water Absorption | Sikafloor®-51 P Pronto 0.05% / 24 hours | Sikafloor®-40 BC Pronto <0.1% / 24 hours | (ASTM D570) |
| Shore D Hardness | Sikafloor®-51 P Pronto 80 | Sikafloor®-40 BC Pronto 61 | (ASTM D2240) |
| Tensile Strength | Sikafloor®-51 P Pronto 3,555 psi | Sikafloor®-40 BC Pronto 1,350 psi | (ASTM D638) |
| Elongation at break | Sikafloor®-51 P Pronto 4% | Sikafloor®-40 BC Pronto 140% | (ASTM D638) |
| Service Temperature | Below 32 °F | | |

APPLICATION INFORMATION

| Coverage | Description | Products | Approximate Sq.Ft./batch |
|-----------------|------------------------|---|---------------------------------|
| | Primer | Sikafloor®-51 P Pronto | 100/gal |
| | Self-Leveling BodyCoat | Sikafloor®-40 BC Pronto + | 25 @ 3/16"/batch |
| | First TopCoat | Sikafloor®-100 SL Pronto | |
| | Second TopCoat | Sikafloor®-40 BC Pronto | 80-90/gal |
| | Quartz Blend | Sikafloor®-40 BC Pronto | 100/gal |
| | | Sikafloor® Pronto Decorative Quartz TG | 1.36 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.

APPLICATION INSTRUCTIONS

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 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.

Sikafloor® Pronto flooring systems are installed by approved contracting firms. The following is only a summary of the installation techniques used by Sikafloor® Pronto approved contractors.

SUBSTRATE 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 the 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)

Important: If using Sikafloor®-101 AC Pronto, please contact Sika Flooring Technical Service for application instructions. Sikafloor®-101 AC Pronto and Sikafloor®-100 HD Pronto must be stored on opposite sides of the mix station to prevent mixing prior to individual steps. Sikafloor®-100 HD Pronto is always the last item added to each mixing step below.

SIKAFLOOR®-51 P PRONTO PRIMER

Measure resin into pail and add proper amount of Sikafloor®-101 AC Pronto. Mix with drill mixer for 15 – 30 seconds or until the Sikafloor®-101 AC Pronto is completely dissolved. Measure and disperse the proper

amount of Sikafloor®-100 HD Pronto and mix for an additional 15 - 30 seconds.

SIKAFLOOR®-40 BC PRONTO SELF LEVELING 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 homogenous mixture is obtained. Add proper amount of Sikafloor®-101 AC Pronto. Mix with drill mixer for 15 – 30 seconds or until the Sikafloor®-101 AC Pronto is completely dissolved. Measure and disperse the proper amount of Sikafloor®-100 HD Pronto and mix for an additional 15 - 30 seconds.

SIKAFLOOR®-40 BC PRONTO TOPCOAT

Measure resin into pail and add proper amount of Sikafloor®-101 AC Pronto. Mix with drill mixer for 15 – 30 seconds or until the Sikafloor®-101 AC Pronto is completely dissolved. Measure and disperse the proper amount of Sikafloor®-100 HD Pronto and mix for an additional 15 - 30 seconds.

Note: After mixing, apply immediately. You will have 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®-51 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.

SCRATCH COAT

Any rough areas or depressions less than 1/4" (6.4 mm) should receive a scratch coat of Sikafloor®-40 BC Pronto with Sikafloor®-100 SL Pronto to smooth and level these areas. Any drips or ridges over 1/8" (3.2 mm) should be ground or sanded smooth. Allow to cure.

BASECOAT

Apply the properly mixed Sikafloor®-40 BC Pronto SL basecoat at 25 ft² (2.3 m²) per batch, at 3/16" (4.8 mm) thickness. Backroll material with porcupine roller.

AGGREGATE BROADCAST

Immediately following basecoat installation, broadcast aggregate 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 a medium stiff broom. Follow with a thorough vacuum to remove all remaining excess aggregate.

TOP COAT (1ST COAT)

Apply the properly mixed Sikafloor®-40 BC Pronto at

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approximately 80 – 90 ft² (7.4 - 8.4 m²) per gallon. Allow to cure.

TOP COAT (2ND COAT) - OPTIONAL

Apply second coat of properly mixed Sikafloor®-40 BC Pronto at approximately 100 ft² (9.3 m²) per gallon. Allow to cure.

DRYING TIME

All components of the Sikafloor® Pronto RB-1823 CQ flooring system fully cure within one hour when properly installed. Temperatures below freezing may take additional time. Airflow across the floor is critical to the overall curing process in cold temperature spaces.

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 air flow 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.

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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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