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 Resinous
 Flooring

MasterTop® 1820 SRS CP

Methacrylate-based, roll-on coating system with a pigmented, smooth or slip resistant surface for interior and exterior floor applications

FORMERLY DEGACOAT® RC

YIELD

Primer: MasterTop SRS 41P with MasterTop SRS 103IN – 100 ft²/batch (2.5 m²/L)
Body Coat: MasterTop SRS 61BC – 60 ft²/batch @ 25 mils (5.6 m²)
Top Coat: MasterTop SRS 53TC – 90 – 110 ft²/batch (8.36 - 10.2 m²)
 All coverage rates are approximate. Coverage rates will vary with the desired texture and porosity of substrate.

PACKAGING

MasterTop SRS 41P: 4.5 gallon pail, 49 gallon drum (17 L pail, 185.5 L drum)
MasterTop SRS 61BC: 4.5 gallon pail, 50 gallon drum (17 L pail, 189 L drum)
MasterTop SRS 53TC: 4.5 gallon pail, 47.5 gallon drum (17 L pail, 179.8 L drum)
MasterTop SRS 103IN: 4.5 gallon pail (17 L pail)
MasterTop MS 113F / Silica Flour: 50 pound bag (22.7 kg)
MasterTop SRS 100HD / Powder Hardener: 2.5 pound (1.1 kg) bottle, 50 pound box
MasterTop PGM 155: 10 pound (4.5 kg) pail

COLOR

See Performance Flooring Color Guide for pigment color offering.

SHELF LIFE

Resins: 2 years when properly stored

STORAGE

Keep stored in cool, dry environment, and out of direct sunlight.

VOC CONTENT

See MasterTop SRS LEED Letter

DESCRIPTION

MasterTop 1820 SRS CP is a methyl-methacrylate (MMA) roll-on coating system for use in areas that require a quick curing floor. The quick installation process makes this system ideal for public assembly facilities, restaurants, warehouses or industrial facilities where minimal downtime is required. MasterTop 1820 SRS CP is an impervious, seamless flooring system, where dirt and spills will remain on the surface and are easily removed by most regular cleaning procedures. MasterTop 1820 SRS CP makes cleaning, decontamination, sanitation and sterilization fast and easy. The unique chemistry of the MasterTop 1820 SRS CP system provides a full cure in one hour or less for each component and provides a permanent chemical bond between each coat.

PRODUCT HIGHLIGHTS

- Fully cures in one hour, reducing downtime for a quick return to service
- Seamless, impervious floor that is easy to sanitize, clean and maintain
- UV resistance that provides long term color performance
- Smooth surface profile makes cleaning is fast and easy
- Excellent chemical resistance for a wide range of applications
- Cures at temperatures down to 24° F (-4° C) to meet a wide range of application and timing requirements

APPLICATIONS

- Used to resurface and coat concrete floors
- Use where a quick return to service or minimal downtime is required
- Areas subjected to pedestrian traffic
- Restaurants
- Grocery Stores
- Industrial Facilities
- Warehouse and storage facilities
- Public assembly facilities and stadiums

LOCATION

- Interior or exterior flooring applications
- Please contact Master Builders Solutions Technical Service for exterior environments subject to freeze/thaw.

SUBSTRATE

- Over new or existing concrete surfaces. When applying over other substrates, such as metal, contact Master Builders Solutions Technical Service.

TECHNICAL DATA
 TEST DATA

MASTERTOP SRS 41P

PROPERTY	RESULTS	TEST METHODS
Percentage Reactive Resin	100%	
Percentage Solids	100%	
Water Absorption, (%/24 hours)	0.06	ASTM D570
Tensile Strength	3,550 psi (24.5 mpa)	ASTM D638
Elongation @ Break	1.3%	ASTM D638
Tensile Modulus	2.1 x 10 ⁵ psi	ASTM D638
Hardness (Shore D)	75	ASTM D2240
Viscosity	15 – 25 cps	ASTM D2393
Electrical Resistivity	Vol: 2.5 x 10 ¹⁵ ohm/cm Surf: 8 x 10 ¹² ohm	ASTM D257 ASTM D257

MASTERTOP SRS 61BC

PROPERTY	RESULTS	TEST METHODS
Percentage Reactive Resin	100%	
Percentage Solids	100%	
Water Absorption, (%/24 hours)	0.05	ASTM D570
Tensile Strength	1,050 psi (7.2 mpa)	ASTM D638
Elongation @ Break	34%	ASTM D638
Tensile Modulus	4.4 x 10 ⁵ psi	ASTM D638
Hardness (Shore D)	70	ASTM D2240
Viscosity	230 – 270 cps	ASTM D2393
Electrical Resistivity	10 ¹⁴ vol	ASTM D25
Compressive Strength	6,000 – 8,000 psi (41.2 – 55.2 mpa)	

MASTERTOP SRS 53TC

PROPERTY	RESULTS	TEST METHODS
Percentage Reactive Resin	100%	
Percentage Solids	100%	
Water Absorption, (%/24 hours)	0.05	ASTM D570
Hardness (Shore D)	80	ASTM D2240
Viscosity	300 – 400 cps	ASTM D2393
Taber Abrasion Resistance (mg. Loss, 1000 cycles, CS17 Wheel)	74	ASTM D4060

Please refer to Master Builders Solutions Performance Flooring Chemical Resistance Guide for further information.

HOW TO APPLY

Every MasterTop SRS 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.

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

SURFACE PREPARATION

1. Floors must be structurally sound and fully cured a minimum of 28 days. Test floor for vapor drive in accordance with ASTM D 4263, ASTM F 2170 or ASTM F 1869.
2. Repair concrete as necessary. If any patching is required, MasterTop 1817 SRS PC should be mixed and placed according to the Polymer Concrete 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-3 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" (13 mm - 19 mm) and tapered back 3" – 6" (7.6 – 15.2 cm) away from drain (Refer to MasterTop SRS Detail Drawing 3.1).
9. Termination points should be saw cut to a depth of 1/4" (6.4 mm) and tapered back (Refer to MasterTop SRS Detail Drawing 3.2).

MIXING

(Refer to MasterTop SRS Mixing Chart for exact batch sizes and measurements)

MASTERTOP SRS 41P PRIMER

Measure resin and MasterTop SRS 103IN into pail and add proper amount of powder hardener. Mix with drill mixer for 15 – 30 seconds or until the powder hardener is completely dissolved.

MASTERTOP SRS 61BC BODY COAT

Measure resin and pigment into a 5 gallon pail. Add silica flour and mix using a spiral mixing blade for 40 – 50 seconds, until a homogenous mixture is obtained. Add proper amount of powder hardener and mix for an additional 20 seconds.

MASTERTOP SRS 53TC TOP COAT

Measure resin and pigment into pail and add proper amount of powder hardener. Mix with drill mixer for 15 – 30 seconds or until the powder hardener is completely dissolved.

Note: After mixing, apply immediately. You will have 7 – 15 minutes of working time, dependent on temperature.

APPLICATION

PRIMER

Apply the properly mixed MasterTop SRS 41P resin to the properly repaired concrete or properly prepared aged coating at approximately 100 ft² (2.5 m²/L) per batch. Allow primer to cure tack-free to an even, satin-like gloss and re-prime any dry spots.

COVE BASE

If a cove base is to be installed, mix and apply according to the MasterTop SRS Cove Base Application Guide. Install cove base prior to installation of overlay coat.

SCRATCH COAT

Any rough areas or depressions less than 1/4" (6.4 mm) should receive a scratch coat of MasterTop SRS 61BC to smooth and level these areas. Any drips or ridges should be ground or sanded smooth. Allow to cure.

BODY COAT

Apply the properly mixed MasterTop SRS 61BC at 60 ft² (5.6 m²) per gallon, rolling on at a 25 mil thickness.

TOP COAT

Apply the properly mixed MasterTop SRS 53TC topcoat at approximately 90 – 110 ft² (8.36 – 10.2 m²) per batch. Allow to cure.

DRYING TIME

All components of the MasterTop 1820 SRS CP flooring system fully cure within one hour when properly installed.

CLEAN UP

Clean tools as needed with inhibited MMA, acetone, ethyl acetate or similar solvents. Collect and dispose of all site wastes.

MAINTENANCE

Regular cleaning and maintenance will pro-long the life of all polymer flooring systems, enhance their appearance and reduce any tendency to retain dirt. Follow the Master Builders Solutions Performance Flooring Cleaning and Maintenance Guide to maximize the life of the floor.

FOR BEST PERFORMANCE

- Not for use at application temperatures over 90° F (32° C).
- Not for use in areas exposed to strong solvents (consult Master Builders Solutions 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.
- Proper mixing is required to ensure color uniformity.
- 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.
- Master Builders Solutions flooring specialists are available to assist you in the selection of the proper flooring system. Call 1-800-243-6739 for in-house and field technical assistance.
- Make certain the most current versions of product data sheet and SDS are being used; visit www.master-builders-solutions.com/en-us to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by Master Builders Solutions personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

Health, Safety and Environmental Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.com/en-us, e-mailing your request to mbsbscst@mbcc-group.com or calling 1(800)433-9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

LIMITED WARRANTY NOTICE

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