

MasterTop® 1823 SRS CQ

Methacrylate-based, flexible, self-leveling flooring system with quartz broadcast for freezers.

FORMERLY DEGAFREEZE™ CQ

YIELD

Primer: MasterTop SRS 51P – 100 ft²/batch (9.3 m²)

Self-Leveling Body Coat: MasterTop SRS 40TC – 25 ft² (2.3 m²) / batch @ 3/16" (4.7 mm)

Top Coat: MasterTop SRS 40TC - 80 – 90 ft² / batch (7.4 - 8.4 m²)

Quartz Blend: MasterTop DE 43CQ – 1.36 ft² /pound (0.28 m²/kg)

All coverage rates are approximate.

Coverage rates will vary with the desired texture and porosity of substrate.

PACKAGING

MasterTop SRS 51P: 4.5 gallon pail, (17 L) 47.5 gallon drum (179.8 L)

MasterTop SRS 40TC: 4.5 gallon pail, (17 L) 53.5 gallon drum (203 L)

MasterTop SRS 40TC: 4.5 gallon pail, (17 L) 53.5 gallon drum (203 L)

MasterTop SRS 100SL: 40 pound (18 kg) bag

MasterTop SRS 100HD / Powder

Hardener: 2.5 pound (1.1 kg) bottle, 50 pound (22.7 kg) box

MasterTop PGM 155 Pigment: 10 pound (4.5 kg) box

MasterTop DE 43CQ Quartz Blend: 50 pounds (22.7 KG)

COLOR

See Performance Flooring Color Guide for pigment and quartz color offerings.

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 1823 SRS 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. MasterTop 1823 SRS CQ can be installed at temperatures down to -20° F (-29° C). The unique chemistry of the MasterTop 1823 SRS CQ 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
- 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
- Excellent UV resistance for long term color performance
- Quartz broadcast provides an aesthetic, non-skid texture
- Excellent chemical resistance for a wide range of applications
- NSF Registered for incidental food contact (R2)

APPLICATIONS

- Flooring system within freezers, coolers and cold warehousing
- Used to 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 and medical research facilities
- Public assembly facilities and stadiums

LOCATION

- Interior freezers and coolers where a flexible system is desired
- 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 51 P

PROPERTY	RESULTS	TEST METHODS
Percentage Reactive Resin	100%	
Percentage Solids	100%	
Water Absorption, (%/24 hours)	0.05	ASTM D570
Tensile Strength	3,555 psi (24.51 MPa)	ASTM D638
Elongation @ Rupture	4%	ASTM D638
Hardness (Shore D)	80	ASTM D2240
Viscosity	45 – 70 cps	ASTM D2393
Taber Abrasion Resistance (mg. Loss, 1000 cycles, CS17 Wheel)	54	ASTM D4060
Electrical Resistivity	Vol: 7.5×10^{13} ohm/cm Surf: 6.5×10^{12} ohm	ASTM D257 ASTM D257

MASTERTOP SRS 40TC

PROPERTY	RESULTS	TEST METHODS
Percentage Reactive Resin	100%	
Percentage Solids	100%	
Water Absorption, (%/24 hours)	<0.1%	ASTM D570
Tensile Strength	1,350 psi (9.3 MPa)	ASTM D638
Elongation @ Break	140%	ASTM D638
Hardness (Shore D)	61	ASTM D2240
Viscosity	450 – 550 cps	ASTM D2393

Chemical Resistance: Please refer to Master Builders Solutions Performance Flooring Chemical Resistance Chart

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, Polymer Concrete 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-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 MasterTop SRS Installation 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 MasterTop SRS Installation 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" (76.2 - 152.4 mm) 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) Important: If using MasterTop SRS 101AC, please contact Master Builders Solutions Technical Service for application instructions.

MASTERTOP SRS 51P PRIMER

Measure resin 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 40TC SELF LEVELING OVERLAY

Measure resin and pigment into a 5 gallon pail. Add 1 bag of MasterTop SRS 100SL powder 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 40TC TOP COAT

Measure resin into pail and add proper amount of powder hardener. If desired, you can mix in the proper amount of pigment. 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 to 15 minutes of working time, dependent on temperature.

APPLICATION

PRIMER

Apply the properly mixed MasterTop SRS 51P resin to the properly repaired concrete or properly prepared aged coating at approximately 100 ft² (9.3 m²) per batch. Allow to cure.

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 40TC SL 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.

OVERLAY COAT

Apply the properly mixed MasterTop SRS 40TC SL overlay coat at 25 ft² (2.3 m²) per batch, at 3/16" (4.8 mm) thickness.

AGGREGATE BROADCAST

Immediately following overlay coat 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 overlay coat material to cure. Remove excess by sweeping with a medium stiff broom. Follow with a thorough vacuum or blow down to remove all remaining excess aggregate.

TOP COAT (1ST COAT)

Apply the properly mixed MasterTop SRS 40TC at approximately 80 – 90 ft² (7.4 - 8.4 m²) per batch. Allow to cure.

TOP COAT (2ND COAT) - OPTIONAL

Apply second coat of properly mixed MasterTop SRS 40TC at approximately 100 ft² (9.3 m²) per batch. Allow to cure.

DRYING TIME

All components of the MasterTop 1823 SRS CQ flooring system fully cure within one hour. Temperatures below freezing will take additional time.

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 prolong 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 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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