



The Chemical Company

PRODUCT DATA

9 09 67 26 Resinous Flooring

DEGAFREEZE™ CQ

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

Product Description

Degafreeze™ CQ is a Methyl-Methacrylate self-leveling flooring system for use in areas that require a flexible system able to withstand operating temperatures found in freezers, coolers and cold warehousing. Degafreeze™ CQ can be installed at temperatures down to -20° F (-29° C). The unique chemistry of the Degafreeze™ CQ system provides a full cure in one hour or less for each component and provides a permanent chemical bond between each coat.

Yield

Degadur® B71 Primer:
100 sq.ft./ batch

Degadur® 332 SL Bodycoat:
25 sq.ft./ batch @ 3/16"

Degadur® 410 Topcoat:
80 – 90 sq.ft./ batch

Degadur® Quartz Blend:
1.36 sq.ft./pound

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

Packaging

Degadur® B71:
4.5 gallon pail, 47.5 gallon drum

Features

- Fully cures in one hour
- Can be applied at -20° F (-29° C)
- Flexible system
- Excellent UV resistance
- Quartz broadcast
- Excellent chemical resistance
- NSF Registered

Benefits

- Reduction in downtime and rapid return to service
- No need to turn off freezer for installation
- Can be subjected to movement from freeze/thaw cycles
- Long term color performance
- Provides an aesthetic, non-skid texture
- Wide range of applications
- Suitable for incidental food contact (R2)

Degadur® 332:
4.5 gallon pail, 53.5 gallon drum

Degadur® 410:
4.5 gallon pail, 53.5 gallon drum

Degadur® Filler SL:
40 pound bag

Powder Hardener/BPO:
2.5 pound bottle, 50 pound box

Degadur® Pigment:
3 pound container, 30 pound pail

Degadur® Quartz Blend:
55 pound bag

Color

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

Shelf Life

Resins: 1 year when properly stored

Storage

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

Where to Use

APPLICATION

- 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 BASF Technical Service.



Technical Data

Test Data

DEGADUR® B71

PROPERTY	RESULTS	TEST METHODS
Percentage Reactive Resin	100%	
Percentage Solids	100%	
Water Absorption, (%/24 hours)	0.05	ASTM D570
Tensile Strength	3,555 psi	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

DEGADUR® 332

PROPERTY	RESULTS	TEST METHODS
Percentage Reactive Resin	100%	
Percentage Solids	100%	
Water Absorption, (%/24 hours)	<0.1%	ASTM D570
Tensile Strength	1,200 psi	ASTM D638
	750 psi (filled)	ASTM D638
Elongation @ Break	220 – 300%	ASTM D638
Hardness (Shore D)	45	ASTM D2240
Viscosity	1100 – 1300 cps	ASTM D2393
Flexural Strength	1,300 – 1,500 psi (filled)	ASTM C580 mod.
Compressive Strength	1,700 – 2,100 psi (filled)	ASTM D695

DEGADUR® 410

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

Chemical Resistance: Please refer to BASF Performance Flooring Chemical Resistance Chart

How to Apply

Every SRS Degadur flooring system is a multiple component system that utilizes a methyl-methacrylate (MMA) resin. It is critical that the instructions listed in the Material 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.

SRS Degadur® flooring systems are installed by approved contracting firms. The following is only a summary of the installation techniques used by SRS Degadur® 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.
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 square feet. Please refer to Bond Test Instruction Guide for further information.
7. Cracks wider than 1/16" 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" and tapered back 3" – 6" away from drain (Refer to SRS Degadur® Detail Drawing 3.1).

9. Termination points should be saw cut to a depth of 1/4" and tapered back (Refer to SRS Degadur® Detail Drawing 3.2).

Mixing

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

IMPORTANT: If using Accelerator 101, please contact BASF Technical Service for application instructions.

DEGADUR® B71 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.

DEGADUR® 332 SL OVERLAY

Measure resin and pigment into a 5 gallon pail. Add 1 bag of Filler SL 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.

DEGADUR® 410 TOPCOAT

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 Degadur® B71 resin to the properly repaired concrete or properly prepared aged coating at approximately 100 square feet per batch. Allow to cure.

COVE BASE

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

SCRATCH COAT

Any rough areas or depressions less than 1/4" should receive a scratch coat of Degadur® 332 SL to smooth and level these areas. Any drips or ridges over 1/8" should be ground or sanded smooth. Allow to cure.

OVERLAY COAT

Apply the properly mixed Degadur® 332 SL overlay coat at 25 square feet per batch, at 3/16" 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.

TOPCOAT (1ST COAT)

Apply the properly mixed Degadur® 410 topcoat at approximately 80 – 90 square feet per batch. Allow to cure.

TOPCOAT (2ND COAT) - OPTIONAL

Apply second coat of properly mixed Degadur® 410 at approximately 100 square feet per batch. Allow to cure.

Drying Time

All components of the Degafreeze™ CQ flooring system fully cure within one hour. Temperatures below freezing may 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 BASF Performance Flooring Protection 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 BASF Technical Service).
- Install at recommended thickness to ensure proper curing and leveling.
- Topcoat must be backrolled 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 square feet prior to floor installation.
- BASF 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 MSDS are being used; call BASF Customer Service at 1-800-433-9517 to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF 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

Read, understand and follow Material Safety Data Sheets and product labels for all components of this flooring system prior to use. The MSDS can be obtained by searching for them on www.BASFBuildingSystems.com, e-mailing your request to dbscst@basf.com or calling 800/433-9517. Use only as directed.

BASF Building Systems

889 Valley Park Drive
Shakopee, MN, 55379

www.BASFBuildingSystems.com

Customer Service 800-433-9517

Technical Service 800-243-6739

LIMITED WARRANTY NOTICE: Every reasonable effort is made to apply BASF exacting standards both in the manufacture of our products and in the information which we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, BASF MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and BASF shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the BASF Technical Manager.

This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, BASF disclaims all CONDITIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. BASF SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. BASF reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.

For professional use only. Not for sale to or use by the general public.