

## PRODUCT DATA

9 09 67 23 **Resinous  
Flooring**

# DEGACOAT™ FC

Methacrylate-based, flexible, roll-on coating system with a pigmented, smooth surface for floor applications.

## Product Description

Degacoat™ FC is a methyl-methacrylate 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, storage facilities, cold warehousing or industrial facilities where minimal downtime is required. Degacoat™ FC is an impervious, seamless flooring system, where dirt and spills will remain on the surface and are easily removed by most regular cleaning procedures. The smooth surface of Degacoat™ FC makes cleaning, decontamination, sanitation and sterilization fast and easy. Additionally, Degacoat™ FC is a flexible flooring system with the ability to handle environments with temperature swings or exterior applications. The unique chemistry of the Degacoat™ FC system provides a full cure in one hour or less for each component and provides a permanent chemical bond between each coat.

## Yield

Degadur® R41™-i Primer:  
100 sq.ft./batch

Degadur® 410 Bodycoat:  
70 - 90 sq.ft./batch @ 20 mil.

Degadur® R71™ Topcoat:  
100 - 125 sq.ft./batch

All coverage rates are approximate.

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

## Features

- Fully cures in one hour
- Seamless, impervious floor
- Excellent UV resistance
- Smooth surface profile
- Flexible flooring system
- Excellent chemical resistance
- NSF registered
- Low temperature applications
- Anti-microbial additive available

## Packaging

Degadur® R41™:  
4.5 gallon pail, 49 gallon drum

Degadur® 410:  
4.5 gallon pail, 53.5 gallon drum

Degadur® R71™:  
4.5 gallon pail, 47.5 gallon drum

Degadur® i-Component:  
4.5 gallon pail

Supersil/Silica Flour:  
50 pound bag

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

Degadur® Pigment:  
3 pound container, 30 pound pail

## Color

See Performance Flooring Color Chart for pigment color offerings.

## Shelf Life

Resins: 1 year when properly stored

## Storage

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

## Benefits

- Reduction in downtime and rapid return to service
- Dirt and spills stay on the surface until cleaned
- Long term color performance
- Cleaning is fast and easy
- Able to perform under temperature swings.
- Wide range of applications
- Suitable for incidental food contact (R2)
- Can be installed at temperatures down to 24 °F (-4 °C)
- Prevents the growth of bacteria and fungus

## Where to Use

### APPLICATION

- Used to resurface and coat concrete floors
- Use where a quick return to service or minimal downtime is required
- Areas subjected to pedestrian traffic
- Exterior environments subject to freeze/thaw
- Restaurants
- Cold Storage Warehousing
- Industrial Facilities
- Public assembly facilities and stadiums

### LOCATION

- Interior flooring applications.
- Applications subject to the freeze/thaw from exterior environments.

### SUBSTRATE

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

## Technical Data

### Test Data

DEGADUR® R41™

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

DEGADUR® 410

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

DEGADUR® R71™

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

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)

#### DEGADUR® R41™ PRIMER

Measure resin and Degadur® i-Component 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® 410 OVERLAY

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.

#### DEGADUR® R71™ TOPCOAT

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 to 15 minutes of working time, dependent on temperature.

### Application

#### PRIMER

Apply the properly mixed Degadur® R41™ resin to the properly repaired concrete or properly prepared aged coating at approximately 100 square feet per batch. Allow primer to cure tack-free to an even, satin-like gloss and reprime any dry spots.

#### 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® 410 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® 410 overlay coat at 70 square feet per batch, rolling on at a 20 mil thickness.

#### TOPCOAT (1ST COAT)

Apply the properly mixed Degadur® R71™ topcoat at approximately 100 – 125 square feet per batch. Allow to cure.

#### TOPCOAT (2ND COAT)

Apply second coat of properly mixed Degadur® R71™ at approximately 100 square feet per batch. Allow to cure.

### Drying Time

All components of the Degacoat™ FC flooring system fully cure within one hour.

### 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 mixing is critical to ensure color uniformity between batches.
- 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](http://www.BASFBuildingSystems.com), e-mailing your request to [dbscst@basf.com](mailto:dbscst@basf.com) or calling 800/433-9517. Use only as directed.

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#### **BASF Building Systems**

889 Valley Park Drive  
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**Customer Service** 800-433-9517

**Technical Service** 800-243-6739

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