

#### PRODUCT DATA

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Resinous Flooring

# **SELBY™ 400 SERIES COATINGS**

Pigmented epoxy floor and wall coatings

#### **Description**

Selby™ 400 Series Coatings are highsolids epoxy polymer systems. They are designed for use on both floors and walls. Selby™ 400 Series Coatings handle light to medium traffic. Alternate cure agents can be used to achieve various properties.

#### Yield

First coat: 160 ft²/gallon (4 m²/L) Second coat: 260 ft²/gallon (6.5 m²/L)

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

#### **Packaging**

1 gallon (3.79 L) cans

5 gallon (18.95 L) pails

55 gallon (208 L) drums available by special order

#### Color

12 standard colors (see the Selby™ Color Selector)

Custom colors are subject to minimum quantities, increased manufacturing lead-times, and premium cost. Contact Selby™ for further information.

#### **Shelf Life**

2 years when properly stored.

#### **Storage**

Store and transport in unopened containers in a clean, dry area. Protect from freezing.

reatures	Benetits
High gloss	Good light reflectivity
Ability to choose various curing agents	To achieve desired application properties
Pigmented coating	Many color options
High-build coating	Excellent hiding power
Economical pricing	Lowers total floor installed cost
<ul> <li>Very low VOC</li> </ul>	No noxious solvent fumes
<ul> <li>Available with Selbabiotic added growth</li> </ul>	Does not support fungus, bacteria, and yeast

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#### Where to Use

#### APPLICATION

- Where superior abrasion resistance is required
- Used as grout coat and topcoat in the Selbaclad 425 System
- Use as a topcoat to provide an orange-peel finish
- Base resin used in multiple Selby<sup>™</sup> systems
- · Decorative commercial floors and walls
- Warehouses
- · Clean rooms
- Industrial floors
- Cafeterias
- Laboratories

## LOCATION

- · Vertical and horizontal surfaces
- Interior

#### SUBSTRATE

 Over new and existing concrete surfaces and toppings

#### **How to Apply**

Selby $^{\text{\tiny{M}}}$  systems are installed by approved contracting firms. Selby $^{\text{\tiny{M}}}$  is a globally branded product line with industry synergies around the world.

The following is only a summary of the installation techniques used by Selby™ approved contractors. Refer to the Installation Guideline for more information.

## **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.
- 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 the 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 (approximating medium-grit sandpaper) 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. Apply a 5 by 5 ft (1.52 by 1.52 m) test in an inconspicuous area that meets the owner's expectations for appearance, slip resistance, and performance.



#### **Technical Data**

## Composition

Selby<sup>™</sup> 400 Series coatings are two-component high-solids epoxy polymers.

#### **Typical Properties**

PROPERY	VALUE	
Service temperature, $^\circ$ F	180	
VOC, Ibs/gal	0.47 (57)	

#### **Test Data**

RESULTS	TEST METHODS	
100% concrete failure	ASTM C 882	
0.087	ASTM D 4060	
0.4	ASTM E 96	
_	MIII B 04045	
Passes	MIL-D-3134F	
Passes 85	MIL-D-3134F	
	MIL-D-3134F ASTM D 635	
85		
85	ASTM D 635	
85 Self-extinguishing	ASTM D 635	
	100% concrete failure 0.087 0.4	100% concrete failure       ASTM C 882         0.087       ASTM D 4060         0.4       ASTM E 96

Unless otherwise noted, test samples were cured 7 days at 73° F (23° C).

#### **Chemical Resistance**

Full chemical resistance is achieved after curing for 7 days. For resistance to a specific chemical compound, consult the Selby<sup>™</sup> Chemical Resistance Guideline. Contact your BASF representative for more information.

## **Mixing**

1. Properly mix the components for this product in the following ratios.

APPLICATION	COMPONENTS	MIX RATIO
Primer	A750 / B725	2 to 1
Base coat	A455 / B451	2 to 1
Topcoat	A455 / B451	2 to 1
Alternate cure agents Series coatings	s can also be used with	Selby™ 400
Selbaclad standard topcoat	A455 / B451	2 to 1
Selby™ OP floor coating, horizontal orange peel	A455 / B452-0P	2.5 to 1
Selbaglas, Selbaglaze, vertical-grade orange peel	A455 / B726	2.5 to 1

- 2. Mix each component separately before mixing together to ensure uniform consistency.
- 3. Combine Parts A and B in a suitably sized container. Use the proper ratios of A and B; scrape the sides of the containers to ensure a complete reaction.
- 4. Mix properly for 3 minutes with a slow-speed drill and Jiffy-style mixing paddle at 350 rpms. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

## **Priming**

Install the mixed primer to the properly prepared surface. Allow to cure.

#### **Application**

- 1. Install the epoxy base coat at 160-200 ft²/gallon (8 -10 mils WFT). Allow 12 hours to cure before applying the second coat.
- 2. Apply the second coat at approximately  $160-200~\rm{ft^2/gallon}$  (8  $-10~\rm{mils}$  WFT). Allow the final floor to cure 24 hours before opening to traffic.

3. For a slip-resistant surface, broadcast and backroll various aggregates to achieve the desired results; contact BASF Technical Service for more information.

# **Drying Time**

Primer: 12 – 24 hours Second coat: 12 – 24 hours Recoat window: 12 – 24 hours

All drying times assume 70° F (21° C); lower temperatures will extend drying times.

#### 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 Selby™ Flooring Protection and Maintenance guide to maximize the life of the floor.

#### **For Best Performance**

- Where greater color or stability is required, use Selby™ N300CR.
- Precondition these products to 70° F (21° C) for 24 hours before using.
- Do not exceed a recoat window of 24 hours.
   If in doubt, call your BASF representative of flooring specialist.
- Where highly chemical-resistant epoxy coatings are desired; see the Selbachem product data sheet.
- Do not expose Selby<sup>™</sup> 400 Series Coatings to any chemicals until fully cured (7 days).
- Use an effective moisture barrier for substrates on or below grade; if not present, contact your BASF representative for options.
- Install this product at a substrate temperature between 50 and 85° F (10 and 30° C).
- The architect and owner should address joint details with the contractor before the job starts.
- BASF representatives or flooring specialists are available to assist you in the selection of the proper flooring system. Call 1-888-243-6739 for in-house and field technical assistance.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (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.BuildingSystems.BASF.com, e-mailing your request to basfbscst@basf.com or calling 800/433-9517. Use only as directed.

For medical emergencies only, call ChemTrec (1-800-424-9300).

# BASF Construction Chemicals, LLC – Building Systems

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**Customer Service** 800-433-9517 **Technical Service** 800-243-6739



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