



The Chemical Company

PRODUCT DATA

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Seamless Quartz Flooring

# SELBATWEDE HD

Trowel-applied heavy-duty decorative floor with textured finish

### Description

Selbatwede HD is a 100% solids trowel-applied epoxy base coat with a decorative broadcast finish. The quartz imparts a slip-resistant surface that can be varied by the applicator. It is applied over properly prepared primed surfaces at a depth of 3/16" (4.5 mm).

### Yield

Primer: 250 ft<sup>2</sup>/gallon (6.25 m<sup>2</sup>/L)

Base coat: 96 ft<sup>2</sup> (9 m<sup>2</sup>)/batch

Receiving coat: 200 ft<sup>2</sup>/gallon (5 m<sup>2</sup>/L)

Grout coat: 100 ft<sup>2</sup>/gallon (2.5 m<sup>2</sup>/L)

Topcoat: 250 ft<sup>2</sup>/gallon (6.25 m<sup>2</sup>/L)

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

### Packaging

Epoxy coatings:

1 gallon (3.79 L) cans

5 gallon (18.95 L) pails

55 gallon (208 L) drums available by special order

Aggregate: sold in bags

N300CR polyurethane topcoat:

1 gallon (3.79 L) cans

5 gallon (18.95 L) pails

### Color

Solid colors: 12 standard colors

Quartz blends: 12 standard quartz blends

### Features

- Clear gloss coat over a multicolored quartz coat
- 1/4" (6 mm) trowel base
- 100% solids epoxy
- Fire retardant
- Temperature in-service range of 0 to 170° F (-18 to 76° C)
- Broadcast finish
- Epoxy resins

### Benefits

- Unique decorative appearance
- Will accommodate damaged surfaces; greater impact resistance and service life
- VOC compliant; low odor
- Self-extinguishing
- Ideal for hot and cold environments
- Texture can be varied to meet customer's needs
- Good chemical resistance

### Shelf Life

Epoxy coatings: 2 years when properly stored.

N300CR polyurethane topcoat: 1 year when properly stored.

### Storage

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

### Where to Use

#### APPLICATION

- Medium- to heavy-duty traffic areas
- Commercial and industrial applications
- Over badly damaged concrete
- Commercial buildings
- Retail facilities
- Lobbies
- Corridors
- Grocery stores
- Hospitals
- Showers and restrooms

#### LOCATION

- Interior

#### SUBSTRATE

- Use over new and existing concrete and toppings

### How to Apply

Selby™ systems are installed by approved contracting firms. Selby™ 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.



## Technical Data

### Composition

Selbatwede is a 100% solids epoxy-resin binder with colored quartz aggregate.

### Typical Properties

PROPERTY	VALUE
<b>Weight</b> , lbs/ft <sup>2</sup> (kg/m <sup>2</sup> ), At 1/8" (3 mm)	4.98 (1.02)

### Test Data

PROPERTY	RESULTS	TEST METHODS
<b>Impact strength</b> , in-lbs	60	ASTM 2794
<b>Compressive strength</b> , psi (MPa)	12,500 (88.5)	ASTM C 579
<b>Tensile strength</b> , psi (MPa)	1,710 (11.8)	ASTM C 190
<b>Impact resistance</b>	No chipping, cracking, or delamination	MIL-D-24613
<b>Fire resistance</b>	Fire retardant	MIL-D-24613
<b>Adhesive strength</b> , psi (MPa)	> 500 (> 3.4) 100% concrete failure	ASTM D 4541
<b>Oil absorption</b>	Nil	MIL-D-24613
<b>Water absorption</b>	Nil	MIL-D-24613
<b>Thermal stability</b>	No de-bonding	ASTM C 844, modified
<b>Coefficient of friction</b>		ASTM D 2047
Wet	0.68	
Dry	0.57	

Unless otherwise noted, test samples were cured 7 days at 73° F (23° C) and 50% relative humidity.

### Chemical Resistance

Full chemical resistance is achieved after curing for 7 days. For resistance to a specific chemical compound, consult the Selby™ Chemical Resistance Guideline.

### Surface Preparation

- Floors must be structurally sound and fully cured a minimum of 28 days. Test floor for vapor drive in accordance with ASTM D 4263.
- Repair concrete as necessary.
- Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
- Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
- Mechanical surface profiling is the method of surface penetration for both new and existing floors. Mechanically profile the floor to a minimum CSP 4 as described by the International Concrete Repair Institute.
- 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.

### Mixing

- Mix the components for this product in the following ratios.

APPLICATION	COMPONENTS	MIX RATIO
Primer	A750 / B725	2 to 1
Base coat	A750 / B725 / EMR/EMR PT*	2 to 1
Receiving coat	A750 / B725 / Broadcast Granules	2 to 1
Grout coat	A750 / B725	2 to 1
Topcoat	A750 / B725	2 to 1

\*100 lbs aggregate to 1-1/2 gallons of resin

- Properly mix each component separately before mixing together to ensure uniform consistency.
- 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.

- 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

Apply the mixed primer to the properly prepared concrete at 250 ft<sup>2</sup>/gallon (6.25 m<sup>2</sup>/L) at 6 – 8 mils. The base coat can be applied over the wet primer coat.

### Application

#### BASE COAT—HAND TROWELING

Add 100 lbs of EMR aggregate to each 1-1/2 gallon batch of mixed Part A and B. Apply at approximately 96 ft<sup>2</sup> (9 m<sup>2</sup>)/batch to a 1/8" (3 mm) nominal thickness or to the specified depth.

#### BASE COAT—POWER TROWELING

Repeat the steps above under hand troweling, but use EMR PT (power-trowel) grade aggregate instead.

#### RECEIVING COAT

1. Apply receiving coat of epoxy resin at approximately 200 ft<sup>2</sup>/gallon (5 m<sup>2</sup>/L).
2. Broadcast the aggregate by hand or by mechanical blower into the wet receiving coat. Use 1/3 lb/ft<sup>2</sup> or as required. Make certain the entire floor is saturated with aggregate, exhibiting a dry appearance.
3. Allow to cure, usually overnight; sweep, stone, and vacuum the excess aggregate.

#### GROUT COAT

Apply the clear grout coat at 100 ft<sup>2</sup>/gallon (2.5 m<sup>2</sup>/L) by squeegee; lightly backroll with a thick-nap roller. Allow to cure 8 – 10 hours.

#### TOPCOAT

Apply the clear finish coat at 250 ft<sup>2</sup>/gallon (6.25 m<sup>2</sup>/L) to achieve the desired texture or smoothness. For increased abrasion resistance and UV stability, substitute N300CR for the finish coat.

Various curing agents can be used to achieve desired application properties; refer to the Selby™ 700 Series product data sheet.

#### Maintenance

Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance, and reduce any tendency to retain dirt.

#### For Best Performance

- Do not expose Selbatwede HD to any chemicals until fully cured (7 days).
- Precondition this product to 70° F (21° C) for 24 hours before using.
- Do not exceed the recommended recoat window of 24 hours; if in doubt, contact your BASF flooring specialist.
- Use an effective moisture barrier for substrates on or below grade; if not present, call your local BASF representative for options.
- For increased abrasion resistance and UV stability, substitute N300CR for the finish coat.
- 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.
- The in-service temperature range is 0 to 170° F (-18 to 76° C).
- BASF representatives and flooring specialists can help you select the proper flooring system. Call 1-800-433-6739 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](http://www.BuildingSystems.BASF.com), e-mailing your request to [basfbscst@basf.com](mailto:basfbscst@basf.com) or calling 800/433-9517. Use only as directed.

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

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