

PRODUCT DATA

9^{09 67 23} Resinous
Flooring

SELBACLAD SL AND SLB

Self-leveling epoxy flooring systems

Description

Selbaclad SL and Selbaclad SLB are composed of 100% solids, tinted epoxy-resin components and specially graded aggregates. They are installed at a thickness from 1/16 – 1/8" (1.5 – 3 mm) or greater. Selbaclad and Selbaclad SLB will handle foot and light wheeled traffic in a variety of industrial and commercial buildings. Selbaclad SLB incorporates an aggregate for slip resistance.

Yield

Primer:

50 – 200 ft²/gallon (1.25 – 5 m²/L)

Base coat:

60 ft²/batch (5.6 m²/batch)

Topcoat (Selbaclad SL):

50 – 100 ft²/gallon (1.25 – 2.5 m²/L)

Lock coat (Selbaclad SLB):

approximately 80 – 125 ft²/gallon

(2 – 3.12 m²/L); coverage rate

depends on desired texture.

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

Aggregate: 50 lb (22.5 kg) bags

Features

- Good flow and self-leveling properties
- Two finishes available
- Durable surface coat
- Epoxy resins
- Wide temperature in-service range
- VOC compliant

Color

Selbaclad SL and Selbaclad SLB are available in 12 standard Selby™ colors. Custom colors are subject to minimum quantities, increased manufacturing lead-times, and premium pricing. Contact BASF Customer Service 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.

Where to Use

APPLICATION

- Where abrasion and chemical resistance are required
- Pneumatic palette-jack areas
- Warehouses
- Food-and-beverage preparation areas
- Clean rooms
- Restrooms
- Locker rooms

Benefits

- Designed for rapid and efficient installation
- Smooth (Selbaclad SL) and slip-resistant (Selbaclad SLB)
- Easy to clean and maintain
- Good chemical resistance
- Ideal for hot or cold environments
- Environmentally friendly

LOCATION

- Interior applications

SUBSTRATE

- Over new and existing concrete surfaces or 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.

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

Technical Data

Composition

Selbaclad SL and SLB are composed of 100% solids, tinted epoxy-resin components and specially graded aggregates.

Typical Properties

CURED SELBACLAD SL

PROPERTY	VALUE
Weight , lb/ft ² (kg/m ²), at 1/8" (3 mm)	5.86 (28.6)

Test Data

CURED SELBACLAD SL

PROPERTY	RESULTS	TEST METHODS
Compressive strength , psi (MPa)	13,100 (92)	ASTM C 579
Tensile strength , psi (MPa)	9,700 (68)	ASTM D 638
Flexural strength , psi (MPa)	4,990 (34)	ASTM D 790
Surface flammability ,		ASTM E 162
Flame spread index	9.29	
Smoke deposit, mg/ms	0.1	
NBS Class	1	
Rate of burning	Self extinguishing	ASTM D 635
Abrasion resistance , C-17 wheel, 1,000 cycles, 1,000 gram load	0.070 gram loss;	ASTM D 4060
Hardness , Shore D	75 – 85	ASTM D 2240
Indentation ,		MIL-D-3134
Initial	0.007 (0.6%)	
24 hr residual	0.0 (0%)	
Impact resistance	No chipping, cracking, or delamination	MIL-D-3134
Fire resistance	Fire retardant	MIL-D-3134
Adhesive strength , psi (MPa) (100% concrete failure)	350 (2.5)	ASTM D 4541
Slip-resistant properties	Min. 0.8 (exceeds ADA requirements)	MIL-D-3134
Oil absorption	Nil	MIL-D-3134
Water absorption	Nil	MIL-D-3134
Heat resistance	No flow, slip, or softening at 158° F (70° C) for 5 hours	MIL-D-3134

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™ Chemical Resistance Guideline.

surface preparation for both new and existing floors. Mechanically profile the floor to CSP 3 – 4 (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.

Mixing

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

APPLICATION	COMPONENTS	MIX RATIO
Primer	A755 / B 725	2 to 1
Base coat	A755 / B 725 / 80/120 Aggregate	2 to 1
Topcoat	A755 / B 725	2 to 1

2. Properly 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.

Application for Selbaclad SL

1. Install the appropriate prime coat in a manner suited to the substrate and its profile. Apply at 50 – 200 ft²/gallon (1.25 – 5 m²/L). Allow to cure.

2. Apply the tinted base-coat mixture at a rate of 60 ft²/batch (5.6 m²/batch). Spread it with a 1/4" V-notched trowel and backroll with a loop or spiked roller. Allow the material to self-level and cure.

3. Apply an optional finish coat of N300 CR polyurethane, if required.

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

Application for Selbaclad SLB

1. Install the appropriate prime coat in a manner suited to the substrate and its profile. Apply at 50 – 200 ft²/gallon (1.25 – 5 m²/L). Allow to cure

2. Apply the tinted base-coat mixture. Spread it at a rate of 60 ft²/batch (5.6 m²/batch) with a 1/4" V-notched trowel and back roll with a loop or spiked roller. Allow the material to self level.

3. Broadcast the aggregate into the coating to the

point of rejection. Allow to cure, then sweep, stone, and vacuum the excess aggregate.

4. Apply the pigmented finish coat or lock coat. Spread the material by squeegee or trowel and backroll to achieve the desired texture (if used as a topcoat). The total system thickness should be a minimum of 1/16 – 1/8" (1.5 – 3 mm), depending on the specification. Allow to cure.

5. Apply an optional finish coat of pigmented N300 CR, if required.

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

Drying Time

Primer: 12 – 24 hours

Base coat: 12 – 24 hours

Polyurethane topcoat: 12 – 24 hours

Drying times assume 70° F (21° C) and 50% relative humidity.

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

- 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.
- For applications over substrates other than concrete, contact BASF Technical Service.
- Do not expose the Selbaclad SL and Selbaclad SLB polymer flooring systems to any chemicals until fully cured (7 days).
- Use an effective moisture-vapor barrier for substrates on or below grade; if not present, contact your BASF representative for options.
- Do not install over pitched floors.
- Selbaclad SL and Selbaclad SLB systems are not suitable for areas requiring high impact resistance.
- Install these products at a substrate temperature from 50 to 85° F (10 to 30° C).
- Consult the appropriate chemical-resistance product data sheet for information on resistance to specific chemicals.
- The maximum service temperature is 175° F (79° C).
- Rapid thermal cycling can lead to premature

failure of this product.

- BASF representatives and 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 MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- 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.
- Apply a finish coat of pigmented N300CR polyurethane for increased abrasion resistance, color retention, or stability.

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 basfbcsct@basf.com or calling 800/433-9517. Use only as directed.

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Form No. 1025776 06/11

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