



FLOORSHIELD SL 3000

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SELF-LEVELING EPOXY FLOOR COATING

Product Description:

Hydrobloc Floorshield SL 3000 is a three-component, solvent-free, high-build self-leveling epoxy flooring system designed for application at 1.5–3 mm thickness. It combines a high-performance epoxy resin, modified amine curing agent and a graded mineral filler package. The system provides a dense, seamless and hard-wearing surface with adhesion, abrasion resistance, and resistance to water, oils, grease and commonly encountered industrial chemicals.

Key Features & Benefits:

- Self-leveling and smooth-flowing.
- Solvent-free, high-solids system.
- Suitable for application thicknesses of 1.5–3 mm.
- Excellent adhesion to concrete.
- High hardness and abrasion resistance.
- Good chemical and water resistance.
- Seamless, hygienic surface that is easy to clean.
- Low shrinkage.
- Suitable for pedestrian and wheeled traffic.
- Excellent surface appearance.

Areas of Application:

Suitable for the following areas:

- Factories and production areas
- Warehouses and workshops
- Engineering and machinery areas
- Food-processing facilities
- Pharmaceutical and laboratory areas
- Commercial kitchens
- Garages and parking areas
- Showrooms and commercial buildings
- Utility and service areas

For severe chemical exposure or continuous immersion, suitability should be confirmed before application.

Surface Preparation:

Concrete substrates must be:

- Sound and structurally stable.
- Clean and free from oil, grease and laitance.
- Mechanically prepared by grinding or shot blasting.
- Free from loose particles.
- Suitably dry and free from uncontrolled rising moisture.



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Apply a compatible Hydrobloc SF Epoxy Primer before applying Floorshield SL 3000.
For very porous or highly absorbent substrates, pre-dampen the surface adequately before application.

Mixing Instructions:

Apply a compatible Hydrobloc SF Epoxy Primer before applying Floorshield SL 3000.
For very porous or highly absorbent substrates, pre-dampen the surface adequately before application.

Mixing Ratio:

Part A : Part B : Part C = 29 : 11 : 60

For a 20 kg pack:

Component	Quantity
Part A	5.80 kg
Part B	2.20 kg
Part C	12.00 kg
Total	20.00 kg

Mixing Procedure

1. Mix Part A thoroughly using a low-speed mechanical mixer.
2. Add Part B and mix for approximately 2–3 minutes.
3. Gradually add Part C while mixing.
4. Mix for approximately 3–5 minutes until completely homogeneous and all aggregate is properly wetted.
5. Avoid high-speed mixing and excessive air entrapment.
6. Use the mixed material within its pot life.

Pot Life: 30–40 minutes at 25°C, as stated in the source TDS.

Do not add water, solvent or other additives.

Application Guidelines:

Substrate Requirements

The substrate must be clean, sound and moisture-controlled.

Application Conditions

Parameter	Requirement
Material/application temperature	10–35°C
Optimum temperature	20–30°C
Relative humidity	Below 80% RH
Substrate temperature	At least 3°C above dew point

Application Method

- Apply a compatible Hydrobloc SF Epoxy Primer to the prepared concrete substrate.
- Pour the mixed Floorshield SL 3000 onto the primed substrate.
- Spread using a notched squeegee or rake to achieve the required thickness.
- Immediately pass a spiked roller through the coating to assist air release and uniform leveling.



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Recommended Application Thickness

Thickness	Recommended Use
1.5 mm	Light/medium-duty areas
2.0 mm	General industrial areas
2.5 mm	Heavy-duty areas
3.0 mm	Heavy traffic / demanding service

Higher temperatures will reduce pot life, while lower temperatures will increase curing time.

Coverage / Consumption:

Coverage depends on the actual mixed density and substrate profile. The following approximate consumption values are based on an estimated mixed density of 2.0 kg/L.

Thickness	Approximate Consumption
1.5 mm	3.0 kg/m ²
2.0 mm	4.0 kg/m ²
2.5 mm	5.0 kg/m ²
3.0 mm	6.0 kg/m ²

Allow additional material for substrate profile and application losses.

Curing & Protection:

Typical curing times at 25°C:

Curing Stage	Typical Time
Tack-free time	6–10 hours
Foot traffic	12–24 hours
Light traffic	24–48 hours
Full cure	7 days

Protect the applied coating during curing.

The source TDS does not specify separate protection periods for rain, direct sunlight or water exposure. These requirements should be confirmed before final publication.

Packaging:

Recommended complete kit: 20 kg

Component	Pack Quantity
Part A	5.80 kg
Part B	2.20 kg
Part C	12.00 kg
Complete Kit	20.00 kg

Storage & Shelf Life:

- Store unopened in the original containers at 5–30°C.
- Protect from direct sunlight, moisture and excessive heat.
- Keep Part C dry.
- Shelf Life: 12 months from the date of manufacture when properly stored.



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Health & Safety:

The supplied source TDS does not provide product-specific health and safety instructions, personal protective equipment requirements, first-aid measures or disposal guidance.

Approved product SDS information should be used to complete this section before publication.

Technical Data:

Property	Typical Value
Components	3
Application thickness	1.5–3.0 mm
Appearance	Smooth, glossy
Mixed density	Approximately 1.9–2.1 kg/L
Pot life at 25°C	30–40 minutes
Tack-free time at 25°C	6–10 hours
Foot traffic	12–24 hours
Light traffic	24–48 hours
Full cure	7 days
Shore D hardness at 7 days	80–85
Adhesion to concrete	Greater than 1.5 MPa / concrete failure
Compressive strength	Approximately 65–80 MPa
Flexural strength	Approximately 25–35 MPa
Colour	Standard grey and white; RAL colours on request
Abrasion resistance	Less than 50 mg loss*
Water resistance	Excellent
Oil and grease resistance	Excellent
Dilute acid resistance	Excellent
Dilute alkali resistance	Excellent
Dry temperature resistance	Approximately 60–70°C continuous
VOC	Solvent-free



HYDROBLOC

BUILT ON PERFORMANCE

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Chemical & Mechanical Resistance:

After full cure, Floorshield SL 3000 provides good to excellent resistance to:

- Water.
- Oils and lubricants.
- Grease.
- Detergents.
- Dilute acids.
- Dilute alkalis.
- Salts.
- Common industrial cleaning chemicals.

For concentrated chemicals, solvents or continuous immersion, chemical-specific resistance testing is recommended.

Note: *The abrasion test method is not identified in the supplied source. Technical values marked as typical or estimated should be confirmed before controlled publication.*