Technical Data Sheet

Floor Guard 100 SB

Product Description

A pure resin-based, single-component epoxy floor coating designed for heavy-duty applications. It is air-drying, cold-applied, and formulated to deliver exceptional impact resistance and long-lasting durability. This product is engineered for industrial and commercial environments where strength and reliability are critical. It provides strong adhesion and long-lasting protection on many different surfaces, including ceramic, marble, metal, epoxy, palladium, granite, concrete, asphalt, and more, both indoors and outdoors. The product not only provide an aesthetic appearance and high durability; they also offer effective waterproofing on the surfaces they are applied to. Thanks to its special structure that adheres strongly to the surface and forms a non-porous and integral film layer; It prevents water penetration It prevents blistering and deterioration caused by moisture It extends the life of the concrete and protects the surface for a long time.

Product uses:

- Factories and production facilities.
- Warehouses and logistics centers.
- Parking garages and workshops
- Heavy traffic areas requiring durable flooring.

Properties

- Single-component, easy-to-apply system
- High impact resistance and heavy-duty performance
- Cold-applied, air-drying formulation
- Excellent adhesion to properly prepared substrates
- Resistant to mechanical stress and wear

TECHNICAL PROPERTIES

Appearance/Color	Semi-Gloss / RAL color card
Density:	1.50 kg/liter (Mixed)
Volume solids %:	74 %
Weight solids%:	66 % (ASTM D1475)
Viscosity:	90 – 92 KU (ASTM D562)
Theoretical spreading rate:	7.4 m^2/ltr (4.94 m^2/kg) (100 micron DFT)
Recommended DFT: *(Dry Film thickness)*	200 micron in two coats
Flash Point:	< 23 °C
Surface dry:	15 approx. min(s) 23°C/73.4°F 50% R.H
Light foot traffic	60 min (23°C and 50% R.H.)
Full dry:	24 hours (23°C and 50 % R.H.)
Application temperature:	+8 °C/46.4° F and +35 °C/ 95°F
Min. cure temperature:	+10°C/50°F

Application Details

Application method:	Brush , Roller – Airless Spray
Thinner:	Epoxy thinner
Thinner Amount:	For Roller application add 10 % For Airless spray add 5%

Surface Preparation:

Concrete Floors:

• Ensure the concrete is fully cured (minimum 28 days).
• Remove laitance, dust, grease, oil, and contaminants by mechanical grinding, shot blasting, or acid etching.
• Repair cracks and voids with suitable epoxy mortar.
• Moisture content should be below 5% before application.
• Apply primer if required to enhance adhesion.

Metal Floors:

• Remove rust, mill scale, and old coatings by abrasive blasting to Sa 2½ (ISO 8501-1).
• Clean thoroughly to remove dust and grease.
• Apply "**Topxy Metal Primer 1500**" immediately after blasting to prevent flash rusting.
• Ensure surface is dry and free of condensation before coating.

Ceramic Floors:

• Degrease and clean thoroughly to remove contaminants.
• Roughen the surface mechanically (grinding or sanding) to create a profile for adhesion.
• Remove dust and debris after roughening.
• Apply "Top Floor 600-SF" suitable for non-porous substrates before applying Floor Guard 100 SB.

PRECEDING COAT:

Top Floor TS 500-SB (for concrete Surfaces)
Topxy Metal Primer 1500 (for metal surfaces)

Important Remarks:

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² tensile strength.
- Applications below 10°C should be avoided.
- The surface should be protected from moisture and rain for 8-10 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the
- Use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
- The natural tendency of epoxy coatings to chalk in outdoor exposure.

Shelf life & Storage:

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notice:

The information presented herein is given in good faith but without warranty. It's based on our experience, indicates our laboratory work results and does not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use. Our suggestions don't release you from the obligation to check their validity and to test our products for both your process and end use application. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranty, express or implied, including but not limited to the merchant ability and fitness for a particular purpose.