

SX70 RAMPGUARD

SOLVENT-FREE EPOXY FOR INCINED SURFACES INDUSTRIAL COATINGS



Description

A two-component, solvent-free epoxy paint for medium to high traffic purposes especially formulated to provide the appropriate viscosity for proper installation on sloped surfaces.

Recommended For

Protection of concrete ramps in factories, warehouses, parking lots, and other facilities exposed to medium and high traffic.

Key Features

- Solvent-free
- Odor-free
- Non-toxic
- High-build
- No sagging
- Seamless flooring surface
- Excellent chemical, abrasion and impact resistance

Physical Properties

Solvent Type	Solvent free
Finish Type	Gloss based on ASTM D523
Spreading Rate	1.5KG/sqm/mm
Maximum inclination	20%
Dry Film Thickness	By Roller-from 500-1000 microns
Pot Life	30 min at 25 ⁰ C
Recoat	After 24 hours
Open to heavy traffic	After 3 days
Full Cure	7 days after application
Viscosity	4000 cP at 25 °C spindle 3 speed 10
Density	~ 1.5 Kg/L (comp A + B) based on ASTM D4541
Adhesion	> 4N/mm ² (concrete fracture) based on ASTM D 4541
Hardness (Shore D)	>100
Compressive Strength	Method: ISO 604 Result: 65 N/mm ² Conditions: 10 days @ 20°C
Elastic Modular Tension	Result: 9200 N/mm ² Conditions: 10 days @ 20°C
Flexural Strength	Method: ISO 178 Result: 24 N/mm ² Conditions: 10 days @ 20°C
Coefficient of Linear Thermal Expansion	Method: DIN 53752 Result: 49 x 10 ⁻⁵ /K Conditions: 10 days @ 20°C
Solids	100 %
Colors	Available in white (and special colors upon order)
VOC	< 100 g/l as Per EPA Method 24

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Surface Preparation

Recommended surface preparation should follow the guidelines of the International Concrete Repair Institute (ICRI). Key to the guidelines is ICRI's Concrete Surface Profile (CSP) classifications, a system of ten distinct textures ranging from CSP1 (nearly flat) to CSP10 (extremely rough).

Most common conditions on site:

Laitance

Laitance is the weak, milky layer of cement and sand that rise to the concrete surface as a result of premature finish or troweling. If a coating is applied directly to the laitance layer, the floor traffic will cause disbanding of the coat.

Contaminations

Old concrete floors can be contaminated by oil, grease, chemicals etc. Check the surface for dark patches that indicate contamination. Spray water on it to see if it absorbs the water. If water stays on the surface, then it indicates contamination, and must be removed by concrete cleaner or degreaser.

Porous concrete

The common procedure is to sand and apply a primer that penetrates the substrate well. In cases where a high performance is needed, it is possible to shot-blast or scarify.

Polished concrete and non-porous construction materials

It is essential to apply proper primers. For high-performance systems such as those applied in hygienic areas, shot blasting, scarifying or grinding is necessary.

Well-attached old paint

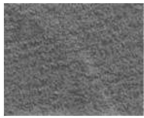
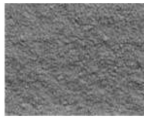
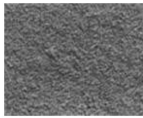
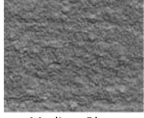
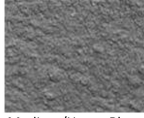
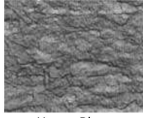

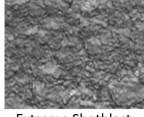
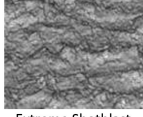
Should be sanded in order to ensure good adhesion.

Badly-attached old paint

Remains of badly-attached, old materials must be removed as these can cause detachment.

Damp

Surfaces that have problems with dampness require a system that permit vapor permeability. If they don't comply with these requirements, there will be an increased risk that the flooring will blister or detach.

CONCRETE SURFACE PROFILE (CSP) CLASSIFICATIONS & RECOMMENDATIONS				
 CSP-1 Acid Etched	 CSP-2 Grinding	 CSP-3 Light Abrasive Blast	<p>The CSP chart is used as a visual representation of desired concrete surface textures, roughness and general appearance. The guideline designates each CSP classification as a suitable base for specific coating types and thicknesses.</p> <p>It also describes the method(s) or equipment typically used to achieve the texture according to the CSP classification.</p>	
 CSP-4 Medium Blast	 CSP-5 Medium/Heavy Blast	 CSP-6 Heavy Blast		
 CSP-7 Heavy Shotblast	 CSP-8 Extreme Shotblast	 CSP-9 Extreme Shotblast		
0 to 75 microns				CSP1
100 to 300 microns				CSP2 – CSP3
1000 to 3000 microns				CSP3 – CSP4
Above 3000 microns				CSP3 – CSP4 – CSP5

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	CSP1 PROFILE	CSP2 PROFILE	CSP3-CSP7 PROFILES
Method	Acid etching	Grinding	Shot Blasting
Notes	Diluted hydrochloric acid is applied liberally onto the floor by a watering can or an acid-proof manual spray pump. This method does not remove surface contaminants such as oil and grease, which must be removed before the etching process.	A diamond grinder uses horizontally-rotating discs to level, smooth and clean the concrete slab surface. This method carries a low surface damage risk.	A dust-free technique that removes, cleans and achieves the desired profile of the surface in a single step. Thousands of steel shot particles are propelled onto the surface, removing the top layer and contaminates on the concrete surface

Application Conditions

Application can only proceed at temperatures above 10°C, and relative humidity below 75%. Drying data are given on the assumption that proper ventilation is provided. At higher temperatures epoxy will cure faster than normal.

SX70 RampGuard should not be applied to concrete where direct sunlight is present. Increase in floor temperature during the application may result in bubble formation at the surface during curing.

SX70 RampGuard should not be applied to concrete with more than 4% moisture or in areas of high carbonation to prevent the development of carbamate and water spots on the surface

Application Method

Tools / Equipment

- Rake Trowels
- Mohair Short Nap Paint Roller
- Metal Spike Roller
- Spiked Boots for using while applying
- Slow mixing drill
- Cleaning broom or vacuum

ROLLER APPLICATION						
Primer / Filler	SX70 Consumption	Minimum Thickness	Spreading Rate per pack	Tools Needed	Thinner	Notes
SX 2 if needed SX0 3 to 4 coats	1.5KG/sqm/mm	500 microns	Base + hardener = 50 m ²	Epoxy Roller	None	All areas should be divided accordingly to the intended consumption / thickness

Priming

- Mix the SX0 PrimeWell resin component before adding the hardener.
- Add the hardener component into the resin and mix at slow speed for a few minutes. Mixing at slow speed reduces the chances of bubble formation in the epoxy. Only mix the amount of epoxy that can be used within the specific pot life.
- Stir well both components and apply with a brush or an epoxy roller.

Finish

- Apply SX70 RampGuard once the primer coat has dried (24 hours).
- Mix the SX70 RampGuard resin component well before adding the hardener into the resin. Once the hardener added, mix both components thoroughly at slow speed using a slow rotation mixer for approximately 4-5 minutes. The mixture will look very homogeneous signaling the end of mixing. Homogeneity can be tested by swiping the surface of the epoxy mixture using a stirring rod. If the surface levels easily and readily, the mixture is ready for application. If not, then the sample should be mixed further.
- Cast a first coat of SX70 RampGuard onto the surface and spread the material with the epoxy roller.
- For skid resistance, immediately broadcast the Colortek Anti-Skid quartz onto the wet surface.
- The following day, apply a second coat diluting SX 70 RampGuard up to 3%.

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Pack Size

- SX70 base: Drums of 20.1 Kg
- SX70 hardener: Gallons of 4.7 Kg

Shelf Life

24 months from the date of production.

Storage and Handling

Care should be taken to avoid spillage. Product should be stored in a dry area and protected from freezing. Extreme temperatures may cause paint to become unusable. For example: freezing and thawing may cause paint to gel, and high heat may cause solid skin to form.

Safety

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

Cleaning

Remove as much leftover product as possible from the application equipment before cleaning. Clean equipment immediately after use with mineral spirits or paint thinner. Do not empty product into drains or watercourses. Wash hands after use in warm soapy water.

Technical Assistance

Available through your local COLORTEK® Design Center or through your COLORTEK PAINTS® authorized distributor. For the location of the retailer nearest you, email us at info@colortek.eu or check our website www.colortek.eu.

Disclaimer

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2008, Certificate CH12/1128.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted on the basis of the information supplied herein.