

SX5 WORXGUARD

HIGH-BUILD, SELF-LEVELING, SOLVENT-FREE EPOXY



DESCRIPTION

A three-component, high-build, solvent-free epoxy paint for heavy traffic purpose.

RECOMMENDED FOR

Designed to protect concrete substrates in heavy-duty areas such as factories, warehousing, airfield workshops, food production facilities and car parks with heavy traffic.

KEY FEATURES

- Solvent-free
- Odor-free
- High solid content
- Self-leveling
- High-build
- Excellent chemical resistance
- Excellent abrasion and impact resistance

PHYSICAL PROPERTIES

Solvent Type	Solvent free
Finish Type	Gloss based on ASTM D523
Dry Film Thickness	Starting at 2000 Microns
Spreading Rate	1 - 1.3 sqm. / Kg / coat at 500 Microns roll applied 0.5-0.6 sqm./Kg at 1000 Microns cast applied
Pot Life	80 min at 250C
Recoat	24 Hours
Full Cure	7 days
Thinner	None required. Use xylene to clean tools
Adhesion	> 4 N/mm ² based on ASTM D 4541 (concrete failure)
Tensile Strength	3 N/mm ² based on ASTM C307-03
Flexural Strength	6 N/mm ² based on ASTM C580-02
Compressive strength	63 N/mm ² based on ASTM C579-01
Abrasion	CS17 wheels, 1000g weights 500 cycles. Weight loss: 10 mg Based on ASTM D4060-14
Impact resistance	0.12 m/Kg based on ASTM D2794-93
Hardness	80 shore D
Density	Approx. 1.5 g/cm ³
Solids	100 %
Colors	Can be tinted to all colors
Bases	White, W1, N
VOC	< 5g/L as per EPA Method 24

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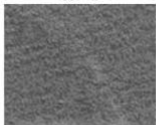
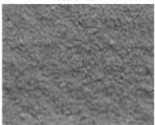
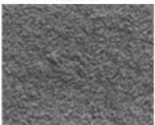
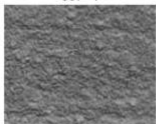
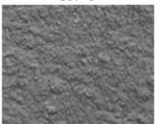
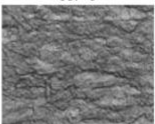
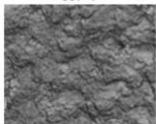
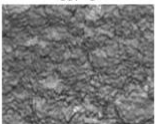
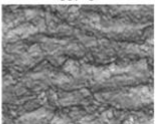
CHEMICAL RESISTANCE / 24 HOUR OPEN SPOT TEST BASED ON ASTM D 1308-2

10% Hydrochloric Acid	Decrease in gloss
10% Sulfuric Acid	Decrease in gloss
10% NaOH	No Effect
Saturated Sugar Solution	No Effect
Saturated Salt Solution	No Effect
Ethanol	Minor spot
Motor Oil	No Effect
Gasoline	No Effect
Xylene	Minor spot
Isobutanol	Minor spot
Clorox	No Effect

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).

CONCRETE SURFACE PROFILE (CSP) CLASSIFICATIONS & RECOMMENDATIONS

CSP-1  Acid Etched CSP-2  Grinding CSP-3  Light Abrasive Blast	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. It also describes the method(s) or equipment typically used to achieve the texture according to the CSP classification.
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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CONCRETE SURFACE PROFILE PREPARATION METHODS		
CSP1 PROFILE	CSP2 PROFILE	CSP3-CSP7 PROFILES
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 contaminants on the concrete surface

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.

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.

SX50 IndustryGuard 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.

SX50 IndustryGuard 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.

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APPLICATION METHOD

Tools / Equipment

- V-Notch Toothed Trowel (4 mm or more)
- Rake Trowels
- Bull Float with spikes for adjusting thickness
- Bull Float Squeegee
- Mohair Short Nap Paint Roller
- Metal Spike Roller
- Spiked Boots for using while applying
- Slow mixing drill

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.
- Apply SX0 PrimeWell with a brush or an epoxy roller

Finish

- Apply SX5 WorxGuard once the primer coat has dried (24 hours).
- Mix the SX5 WorxGuard resin component well. Add the quartz into the resin component and mix well for few minutes. Once the mixture become homogenous add the hardener and mix thoroughly at slow speed using a slow rotation mixer for approximately 4-5 minutes (do not add thinner to the resin, quartz and hardner mix).
- 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.
- SX5 WorxGuard can be applied by casting or by roller. When applying by roller, It is important to use a shorthaired mohair roller in order to get the best suitable surface by painting, without defects. This also accounts for better coverage by painting. When casting, pour the self-leveling SX5 WorxGuard directly on the primed and clean surface. If a 1mm thickness is desired use a 4 mm V-Notch trowel. For 2 mm thickness, use a 6 mm V-Notch trowel. Immediately after, pass over the poured surface with the spike roller to break-up possible air bubbles formations.
- Depending on the surface desired, SX5 WorxGuard can be applied with or without the addition of special quartz into the epoxy (broadcasted over the casted surface).

Note: The color of tinted product may vary if applied at different thicknesses. It is recommended to apply at even thickness in order to avoid the problem from occurring.

PACK SIZE

	PW	W1	N	QUARTZ	HARDENER
1 US Drum (kg)	8.8	8.1	7.55	7.33	3.58
1 US Gallon (KG)	2.2			1.83	0.9

SHELF LIFE

24 months from the date of production.

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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 Xylene. 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 9001:2015, Certificate LB18/234269. 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.