

SX2 FILLWELL

SOLVENT-FREE EPOXY FILLER

INDUSTRIAL COATINGS



Description

A specially designed three-part solvent-free epoxy filler.

Recommended For

Designed to fill imperfections and irregularities in concrete walls prior to over coating with epoxy top coats. SX2 FILLWELL is suitable for interior and exterior areas under strict hygiene control by providing crack-resistant joints with low permeability to water and liquids

Key Features

- Hygienic properties
- High strength
- No shrinking
- Waterproof
- Excellent chemical resistance

Physical Properties

| | |
|---------------------------|--|
| Joint width | 2 to 20mm |
| Pot life | 20 minutes |
| Time to Traffic | 24 hours |
| Density | ~1.7 g/L |
| Full cure | 7 days |
| Adhesion | > 4 N/mm ² (concrete fracture) based on ASTM D 4541 |
| Coverage | Dependent on the site of tile, joint width and joint depth Coverage = (L+B) x W X D x 2.o / (LxB) L = length of tile W = width of tile B = breadth of tile D = depth of joint |
| Color | Beige |
| VOC | < 100 g/l as Per EPA Method 24 |
| Tensile Strength | 19.8 MPa based on ASTM C-307 |
| Flexural Strength | 28.0 MPa based on ASTM C-580 |
| Water Absorption | 0.01% ASTM C-413 |
| Bond Strength to Concrete | 30.0 MPa based on ASTM C-882 |
| Bond Strength to Steel | 26.0 MPa based on ASTM C-882 |
| Thermal Compatibility | Passes |

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.



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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

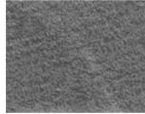
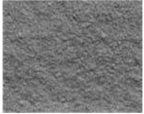
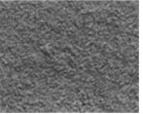
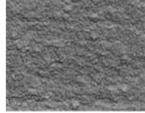
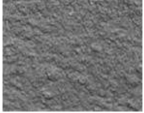
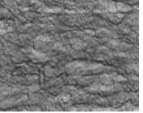
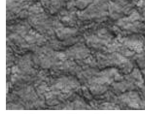
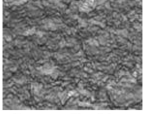
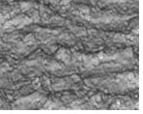
Should be sanded in order to ensure good adhesion.

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. For a coating to bond properly, the concrete surface must be sound, clean and free from surface defects and dryness. The surface should be properly roughened to establish a good mechanical bond.

| 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 |

| | CSP1 PROFILE | CSP2 PROFILE | CSP3-CSP7 PROFILES |
|---------------|--|---|---|
| Method | Acid etching | Grinding | Shot Blasting |
| Notes | <p>Diluted hydrochloric acid is applied liberally onto the floor by a watering can or an acid-proof manual spray pump.</p> <p>This method does not remove surface contaminants such as oil and grease, which must be removed before the etching process.</p> | <p>A diamond grinder uses horizontally-rotating discs to level, smooth and clean the concrete slab surface.</p> <p>This method carries a low surface damage risk.</p> | <p>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</p> <p>This method carries a low surface damage risk.</p> |

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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.

SX1 ToughGuard should not be applied to concrete where no direct sunlight is present. Increase in floor temperature during the application may result in bubble formation at the surface during curing.

SX1 ToughGuard 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

Mixing

Mix by adding the hardener to the resin and then stir in the grout until a smooth, well-mixed paste is obtained. Mixing by use of a slow speed drill is preferred.

Grouting

Apply to the joints starting from the deepest part to avoid trapping air. It is advisable to tape joint sides to keep tiles free of grout and grout in one direction one day, completing the grout in the opposite direction the following day.

Note: After grouting, any surplus material should be removed before it sets by use of damp cloths, xylene or thinner.

Pack Size

- SX2 Base: 1 Kg
- SX2 Quartz: 3 Kg
- SX2 hardener: 0.55 Kg

Shelf Life

12 months from the date of production if stored in unopened containers according to manufacturer's instructions.

Storage and Handling

Store under cover; clear of the ground, on pallets protected from rainfall. Avoid excessive compaction. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

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

Tools and equipment must be cleaned immediately after use with solvent.

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.