

**Technic data sheet:**

# ECOGUARD **PORE FILLER**

## Hardener & Pore filler

**PRODUCT DESCRIPTION:** isi GmbH Germany ECOGUARD Pore Filler is a combination of silicates and specialty resin which hardens and densifies the concrete surface, while filling surface pores and small craze cracks.

ECOGUARD Pore Filler is easy to apply and provides a clear, abrasive resistant finish which is designed to protect and enhance the mechanical surface gloss of polished concrete floors and withstand heavy pedestrian traffic.

It acts as a renewable wearing surface to maintain the integrity of the polished surface while providing increased gloss and excellent clarity. Ideal uses are for polished concrete, cement based terrazzo, and self-leveling wear surfaces, exposed to high traffic such as terminals, lobbies, showroom floors, restaurants, schools, malls, as well as residential kitchen floors, and living spaces.

### **BENEFITS:**

1. Surface hardener and densifier.
2. Fills surface pores and small depressions and cracks up to 5 mm in depth and width.
3. Formulated using a proprietary resin compound which reacts with silicates and free alkali
4. Finishes to a high surface tension with no visible surface pores.
5. Micro cellular composition bonds with the surface matrix to provide excellent wear resistance
6. Helps to reduce labor and diamond wear
7. Induces a high early gloss with excellent distinction of image in lesser steps

### **COMPOSITION:**

ECOGUARD Pore Filler contains proprietary silicates, thermally cured resin and wetting agents.

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Density (20°C):	1.37 g/cm <sup>3</sup>
pH:	11.3 (+/- 0.10)
%Solids:	36.0% in concentrate
Color:	Semi-transparent, milky white
Freeze Point:	32°F (-1.1°C)
VOC (Volatile Organic Compounds):	<25 g/L (,0.20 lb./gal)

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**LEED CREDIT CONSIDERATIONS:** Materials and Resources:

**MR Credit 1.2-**Building re-use. Indoor Environmental Quality.

**MR Credits 5.2:** Regional materials- Greater than 20% extracted, processed and manufactured regionally at production location: 51598 Friesenhagen Steeg

**SURFACE PREPARATION:** Concrete floor should be opened up and ground to a 30/40 metal bond grit level.

Best tools to use for pore Filler is New isi CMB Tool Line in # 30/40 or # 50/60 or # 100.

**MIXING:** The ECOGUARD Pore Filler is sold in concentrate form to be diluted at a ratio not to exceed 1:9 with potable water. You may adjust the ratio from 1:4 on up to 1:9 depending on surface depressions/damage or porosity.

For fissures or depressions that are 5mm in width or depth, dilute at a ratio of 1:2 with potable water.

For small pinholes on softer concrete floors with lots of craze cracks, a ratio of 1:4 is normally recommended.

For most floor situations with minor pinholes and craze cracks, the ratio of 1:9 works very well.

**APPLICATION:** The recommended application tool is the isi the New isi CMB Tool Line in # 30/40 or # 50/60 or # 100. Using your concrete grinding/polishing equipment.

Apply the diluted ECOGUARD Pore Filler by use of a pump-up sprayer. Spray small areas at a time, in front of the grinder edge, and apply liberally to saturate the surface.

Do not apply too far ahead of the grinder, so that the product remains wet and does not evaporate.

If the diamond abrasives leave dry areas behind the grinder path, re-wet those areas and re-grind to create the desired pudding-like mud consistency with soft peaks.

Once you have reached that stage and completed your task, stop applying the Pore Filler and grind the entire floor until dry.

It is best to ensure that the mud-like residual on the surface remains wet until you are ready to grind it dry.

It is recommended to break up large surfaces in section to ensure that the created slurry remains mud like and damp prior to grinding dry.

**PLEASE NOTE THAT BEHIND THE MASCHINE THE FLOOR IS DRY AND WIHOUT BRAUN STAIN.**

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### **APPLICATION (Continued):**

**ALTERNATIV:** Once complete, areas that had deeper fills/holes/small cracks will remain wet longer, and visible by the obvious darkened color. This is normal - re-grind the surface to increase heat transfer to those areas as needed until dry and uniform in color. Use the same 100 Grit resin diamond to remove surface remnants until you have a clear view of the concrete surface. The surface will be very hard, dense, and demonstrate high reflectivity at early resin stages. Continue to polish using a 400 Grit resin and up to the desired resin grit and gloss level.

**SPILL CLEAN-UP:** Use soap and warm water promptly after spill, before Pore Filler is allowed to dry.

**CAUTIONS:** This is a concentrate Do not exceed recommended maximum dilution rate. May be applied to surface and ambient temperature as low as 4-5°C and above. Pore Filler is not suitable for concrete subject to chemical or caustic exposure or containment on industrial floors, or applications that are exposed to sub-grade water or under continuous submersion. May be used in exterior applications. ECOGUARD Pore Filler cannot not be applied over non-porous, sealed surfaces. It may be used on concrete countertops as part of the polishing process.

**WARNINGS:** ECOGUARD Pore Filler is harmful if swallowed. It is also an eye irritant and may irritate skin. Wear protective safety glasses, gloves, and clothing when handling. Avoid prolonged skin contact-wash skin with soap and water if exposed to avoid irritation. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. Keep containers closed when not in use and dispose of accordingly. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.**

### **H.M.I.S. CODES (Hazardous Materials Identification System):**

HEALTH = 1, FLAMMABILITY = 0, REACTIVITY = 0, PERSONAL PROTECTION = C

**SHIPPING CLASS:** ITEM 33880, SUB 2, LTL 55 CONCRETE SEALER-WATER BASE-NOT REGULATED BY D.O.T.

**PACKAGING:** 1 – 5 – 25 – 120 – 1000 Liter

**STORAGE:** 15 – 30 ° Celsius Keep from freezing. If frozen, allow to thaw to room temperature and mix before applying.

**SHELF LIFE:** 2 years properly stored

## ***Technic data sheet:***

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**Status 01/2017**