

# SigaCid 330

Glass Mat Reinforced Furan Lining System

*Empowered by Expertise!*

**Description:** **SigaCid 330** is a black, approx. 3 mm thick; glass mat reinforced lining system based on a furan resin. **SigaCid 330** is electrically conductive by using a hybrid mat.

**Characteristics:**

- Universal chemical resistance, especially against acids and solvents
- High temperature resistance up to +100°C (dry)
- Electrically conductive
- Very good storage stability

**Applications:** **SigaCid 330** can be applied on **SigaPox** coatings, sheets or rubber linings.

**Chemical resistance:** Information on the chemical resistance is available on request.

**Substrate:** Components to be coated shall be designed and manufactured in accordance with EN 14879-1. Before start of coating work, the suitability of the surface preparation measures according EN 14879-1 must be checked and recorded.

**Pot life (20°C):**

Product	Time (min)
SigaCid 330	ca. 30

**Curing (20°C):**

Load Capacity	Time
Over workable	ca. 24 h
Accessible	ca. 24 h

**Packaging:** The products are supplied in the following standard package sizes:

Product	Size	Article No.
SigaPox 414 SOLUTION	20 kg	592 0605
SigaPox 414 HARDENER	8 kg	592 0615
SigaCid 330 HARDENER	10 kg	592 0800
SigaCid 330 SOLUTION	20 kg	592 0810
SigaCid 330 SOLUTION	50 kg	592 0811
SigaCid 330 UNI	8.4 kg	592 0900

**Storage:** The products must be stored in a cool and dry place, away from direct sunlight. At the specified storage temperatures, a shelf life of the products is given of at least for the following periods:

Product	Temperature	Shelf Life
SigaPox 414 HARDENER	≤ +25°C	24 Months
SigaPox 414 SOLUTION	≤ +25°C	24 Months
SigaCid 330 HARDENER	≤ +25°C	24 Months
SigaCid 330 SOLUTION	≤ +25°C	12 Months
SigaCid 330 UNI	≤ +20°C	24 Months

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof. In addition, the DIN 7716 must be observed.

## 1. Surface preparation

Steel and concrete surfaces must be primed with **SigaPox 414** before application. If a sealing layer of rubber or coating is present, **SigaCid 330** can be directly applied on the sealing layer. Unevenness should be compensated in the ground.

### C-STEEL

All contaminants, including non-visible detectable contaminants, must be removed in accordance with DIN Fachbericht #28 and EN ISO 8502.

Ferrite steel surfaces shall be abrasive blasted to "Near White Metal" in accordance with EN ISO 12944-4. A standard preparation degree of SA 2½ (SSPC SP-10; NACE #2) as specified in EN ISO 8501-1 must be achieved. The primer must be applied immediately after the blasting.

### CONCRETE

Appropriate action shall be taken to prepare the concrete surfaces; dry and free of dust and free of contaminants such as oil or grease. The concrete shall have minimum tensile strength of 1.5 N/mm². The residual moisture content must not exceed 4%.

## 2. Environmental conditions

The specified environmental conditions must be observed during surface preparation and coating work and be tested and recorded according EN 14879.

Environmental conditions	Value
Relative Humidity	≤ 80%
Surface Temperature	≥ +10°C up to +30°C
Application Temperature	+20°C ± 5°C recommended
Dew Point Distance	min. 3K

## 3. Application

The execution of the coating work is only permitted, if the requirements of "Surface Preparation" and "Environmental Conditions" are met.

**SigaPox 414** is applied twice (undiluted) by using brushes, wide brushes or rollers. If the overworking time is > 24 hours, the last

coat must be sanded in fresh state with dry quartz sand (0.3 – 0.7 mm) – if no sanding is carried out – it must be grinded.

**SigaCid 330** laminate solution is applied on the surface by using a roller and then the first 450 g/m² glass mat is pressed fresh in fresh – with an overlapping width of approx. 5 cm – and rolled on reasonably free from bubbles by using a roller, saturated with **SigaCid 330** solution. The remaining air must be removed by using a laminate roller. The second 450 g/m² glass mat is pressed - with an overlapping width of approx. 50 cm – on the uncured layer, soaked with **SigaCid 330** solution again and rolled on reasonably free from bubbles by using a roller, saturated with **SigaCid 330** solution. The remaining air must be removed again by using a laminate roller. Finally, a 30 g/m² surface veil is applied on the second glass mat fresh in fresh and reasonably free from bubbles. To improve the slip resistance of **SigaCid 330**, the fresh laminate coating can be sanded with silicon carbide (0.5mm; Consumption: 1.5 kg/m²).

### CONDUCTIVITY

If **SigaCid 330** should be conductive, a 280 g/m² hybrid fleece must be applied on the second glass mat in-stead of the 30 g/m² surface veil.

## 4. Work tools

The following tools are essential for the application:

- Stirrer (max. 300 r/min.)
- Measuring cup & Mixing vessels
- Flat / wide brush / roller
- Laminate roller
- Scissors
- Miscellaneous (safety glasses, rubber gloves etc.)

## 5. Mixing ratio

### MIXING PRIMER

**SigaPox 414 PRIMER** must be stirred before adding the **SigaPox 414 HARDENER** in the recommended mixing ratio. The stirring of the merged

components should be at least 3 minutes and must result in a homogeneous mixture. Then pour the mixture into a clean pail and mix again briefly.

### MIXING SigaCid 330 SOLUTION

**SigaCid 330 SOLUTION** must be stirred before adding the **SigaCid 330 HARDENER** in the recommended mixing ratio. The stirring of the merged components should be at least 3 minutes and must result in a homogeneous mixture. Then pour the mixture into a clean pail and mix again briefly.

Primer	KG per litre	Parts by Weight	Parts by Volume
SigaPox 414 SOLUTION	0.815	100	0.87
SigaPox 414 HARDENER	0.325	40	0.36

SigaCid 330	KG per litre	Parts by Weight	Parts by Volume
SigaCid 330 SOLUTION	1.120	100	1.00
SigaCid 330 HARDENER	0.034	3	0.03

## 6. Consumption

Layer	Product	Coverage (g/m²)
Primer	SigaPox 414	ca. 300 - 350 (concrete) / ca. 250 (steel)
Laminate layer	SigaCid 330	ca. 2600 / ca. 3300*
	2 x Fibreglass mats 450 g/m²	ca. 1000
	1 x Surface veil 30 g/m²	ca. 33

\* When applying a hybrid fleece

## 7. Cleaning

Clean all equipment with **SigaCid 330 UNI** immediately after use. The cleaning is done while the material is still not hardened.

## 8. Safety measures

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

Technical Data	Standard	Unit	Value
Resistance to Ground	DIN 14879-6	Ω	≤ 1 × 10 <sup>6</sup>
Density (Mixture)	EN ISO 2811 (ASTM D1475)	g/cm <sup>3</sup>	1.154
Adhesion Strength Concrete	-	N/mm <sup>2</sup>	Own tensile strength
Adhesion Strength Steel	-	N/mm <sup>2</sup>	3
Hardness Shore D	-	-	> 60
Max. Operating Temperature Dry	-	°C	+100

**Note:** The indicated temperatures are dependent on the present load and may vary

**SigaCid 330;** 0.00/26.08.2017. All information contained herein is based on the current state of our knowledge and practical experience at the time of release. Therefore, please make sure that this is the actual edition of the Technical Data Sheet. All data are only intended as a guideline for informational purposes and do not constitute a legally-binding warranty of the suitability for a certain purpose of use, due to its dependence on site conditions and possible processing, use and applications. All information contained in this technical datasheet is subject to change without notice.

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