



IPAPOX EW-HT

1. Product Description

IPAPOX EW-HT is a yellow-brown epoxy, used as an approx. 3 mm thick glass mat reinforced lining system and also as a primer on steel or concrete.

2. Application Areas

IPAPOX EW-HT LAMINATE is used on steel and on concrete surfaces. The coating is suitable for areas subjected to mechanical stresses.

The chemical resistance of IPAPOX EW-HT is generally similar to IPAPOX EW, but it has a better resistance against organic acids and solvents

Features

- Direct adhering primer on steel and concrete surfaces
- Excellent chemical resistance
- High temperature resistance up to +160°C (dry)

Chemical resistance

Information on the chemical resistance properties is available upon request.

3. 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 to EN 14879-1 must be checked and recorded.

Surface Pre-treatment

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%.

Environmental conditions

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

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.)

4. Mixing ratio

IPAPOX EW-HT PRIMER must be agitated before adding the IPAPOX EW-HT 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 + Laminate	Parts by Weight	Volume
IPAPOX EW-HT SOLUTION	0,80	2
IPAPOX EW-HT HARDENER	0,40	1

1,20 kg = 1 Liter

5.Application

The execution of the coating work is only permitted, if the requirements of „Surface Pre-treatment“ and „Environmental Conditions“ are met.

IPAPOX EW-HT PRIMER is only necessary if IPAPOX EW-HT LAMINATE is not applied directly after blasting. IPAPOX EW-HT 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. 4 – 5 cm – and rolled on reasonably free from bubbles by using a roller, saturated with IPAPOX EW-HT laminate 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 IPAPOX EW-HT laminate solution again and rolled on reasonably free from bubbles by using a roller, saturated with IPAPOX EW-HT laminate 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 IPAPOX EW-HT LAMINATE, the fresh laminate coating can be sanded with silicon carbide (diameter 0.5mm; Consumption: 1.5 kg/m²).

Packaging

Ipapox EW-HT Hardener : 10kg / 20 kg

Ipapox EW-HT Solution : 20 kg

Consumption

Layer	Product	Coverage [g/m ²]
Primer	IPAPOX EW-HT PRIMER	Concrete 350 - 400
		(steel) 250 - 300
Laminate	IPAPOX EW-HT LAMINATE	ca. 2600

Pot Life (20°C)

Product	Time [min]
IPAPOX EW-HT LAMINATE	ca. 60

Curing (20°C)

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

Storage

Product	Temperature	Shelf Life
IPAPOX EW-HT HARDENER	≤ +20°C	24 Months
IPAPOX EW-HT SOLUTION	≤ +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.

Safety Instructions

Our application-technical advice in spoken and written should support your own work. It is considered a non-binding note. Product descriptions contain no statements about liability for any damages. If liability nevertheless comes into question, then this is limited to the value of the goods used for all damages. This leaflet invalidates any prior technical information about this product. Information provided by our employees beyond the scope of this leaflet requires written confirmation.
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Security Compliance:

- Operating instructions according to § 20 GefahrstoffV and TRGS 507
- Safety data sheets
- accident prevention regulations of the professional association
- Danger warnings and safety advice on the container
- Fire ban / smoking ban
- Sufficient ventilation
- Avoid skin contact with the materials
- clean hands with skin protection soap (no solvent)

IPA solutions, IPA hardeners and IPA universal cleaners are covered by the Hazardous Substances Ordinance.

Disposal

Uncured plastic waste, cleaning agents and incompletely emptied containers must be disposed of as special waste.

Note

Our materials are subject to constant controls and improvements, so changes may not have been editorially taken into account. We therefore ask you to go through the technical basics before executing services with your contact person in our company. We point out that the materials offered by us are special products that require expertise and application security of the user.

Technical Data	Standard	Unit	Value
Density (Mixture)	EN ISO 2811 (ASTM D1475)	g/cm ³	1.2
Density IPAPOX EW-HT SOLUTION	EN ISO 2811 (ASTM D1475)	g/cm ³	1.15
Adhesion Strength Concrete	EN ISO 4624	N/mm ²	Own tensile strength
Adhesion Strength Steel	EN ISO 4624	N/mm ²	4
Hardness Shore D	-	-	> 60
Max. Operating Temperature Dry Laminate	-	°C	+160

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