



## Ipapox EW Coatings

### Chemical Resistant Epoxy Coatings

#### I. Product description

##### I.1 Application

Ipapox EW is an epoxy-based coating material suitable for protecting concrete floor and wall surfaces exposed to relatively high levels of thermal and mechanical stress, as on soils with traffic, and temporary temperature loads up to 90 °C.

Ipapox EW can also be used to create acid-resistant tilings. Temp. Load then: 120 ° C.

##### I.2 Construction

The total layer thickness is approx. 0.6 to 6.0 mm, depending on the type of installation. First, always the Ipapox EW primer must be installed. Then then the actually selected protective layer.

Only in the add-on of kind and mass of additives the material works.

##### I.3 Standar Colors

Grey , Black

##### I.4 Physical Data

Temperature load limit

Permanent °C 60 ; Trowelling °C 80

Short term max. °C 90

Compressive strength trowelling: 92 Mpa

#### Important chemical resistances

Mineral Oils	+
Petrol	+
Toluene / Xylene	+
Methanol / Ethanol	+
Isopropanol	+
Ethyl Acetate	+
Acetone	-
Methyl Isobutyl Ketone	-
Trichlorethylene	-
Aldehydes	-
Hydrochloric Acid 37%	+
Phosphoric Acid 50%	+
Chromic Acid 20%	-
Hydrofluoric Acid 5%	-
Sulfuric Acid 40%	+
Nitric Acid 20%	+
Acetic Acid 30%	+
Oleic Acid	-
Sodium Hydroxide 50%	+
Chlorine bleach	-
Ammonia 25%	+
Hydrogen Peroxide 30%	o

+ = resistant at 40 ° C

0 = short-term stable

- = not resistant

further resistances on request

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## II. Processing

### II.1 Application Requirements

The processing temperature range is between 10° C and 35° C. Optimal are 20° C. Higher and lower temperatures than 20 ° C accordingly affect the processing time and consistency of the compositions, and thereby can change consumption, layer thickness and performance. During application, a minimum distance of 3° C to the dew point should be maintained, rel. Humidity: max. 70%. During the coating process, there should be no precipitation, drafts or sunlight as this may cause surface defects and blisters.

### II.2 Surface preparation (concrete, screed and steel)

#### Concrete and screed

For concrete, DIN EN 14879-1 and leaflet B1 apply.

Surfaces generally need to be pretreated. A mechanical cleaning with a hard broom, steel brush or industrial vacuum cleaner is usually not enough. Mostly blasting of concrete, screed and steel surfaces is required. The concrete and screed surfaces must be firm, free of cement slurry, cement skin, loose and tender parts,

Structural defects, cracks and separating substances (eg oil, grease, paraffin, rubber abrasion, release agents, post-treatment agents, organic additives, paint residues). You must neither dismiss nor dismiss. The residual moisture should not exceed 4% normally.

#### Steel

For substrate preparation, DIN EN 14879-1 and DIN EN ISO 12944-4 must be taken into account. The standard purity after blasting: Sa 2 ½; Minimum roughness Rz = 60 µm.

#### Components

Product	Container	Storage	Storage conditions	Storage Life
Ipapox EW Solution	Clear liquid	25 kg B	20 °C	2 years
Ipapox EW Hardener	Clear liquid	25 / 5 kg B	20 °C	2 years
Ipapox EW Filler -fine grey	Grey powder	25 kg S	dry	unlimited
Ipapox EW Filler	Grey powder	25 kg S	dry	unlimited
Ipapox EW Filler- conductive	Grey powder	25 kg S	dry	unlimited
Ipapox EW Filler- black	Black powder	25 kg S	dry	unlimited
Quartzsand 0,5-1,0 mm	Sand	25 kg S	dry	unlimited

Gebinde : F = drum S = bag B = steel pail

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Safety note: For handling, storage and transport, the corresponding safety data sheets must be observed

### Mixing Ratio

#### **Ipapox EW Primer**

Components	Consumption in kg / m <sup>2</sup>
Ipapox EW Solution	0,333
Ipapox EW Hardener	0,067

### Protective Layers

#### **Ipapox EW Thin Layer ,3 layers , Thickness: 0,6 mm**

(1. to 3. layer, grey)

Components	Consumption per Layer in kg / m <sup>2</sup>
Ipapox EW Solution	0,225
Ipapox EW Hardener	0,045
Ipapox EW Füller fine grey	0,125

#### **Ipapox EW Selfleveling Coating , 1 layer , Thickness: 2 mm**

Komponenten.	Consumption in kg / m <sup>2</sup>
Ipapox EW Solution	1,530
Ipapox EW Hardener	0,306
Ipapox EW Füller fine , gry	0,764

#### **Ipapox EW Trowellings , 1 Layer , Thickness : 5-6 mm**

	Not conductive - grey	Conductive - dark grey
Komponenten.	Consumption in kg / m <sup>2</sup>	Consumption in kg / m <sup>2</sup>
Ipapox EW Solution	1,40	1,75
Ipapox EW Hardener	0,28	0,35
Ipapox EW Filler	9,70	0
Ipapox EW Filler conductive	0	8,30

### **Processing instructions**

The individual components are added to the mixing vessel in the order solution-hardener-filler. After adding each component, mix thoroughly. For mixing larger quantities use a compulsory mixer. The processing time depends on the batch quantity as well as the temperatures of the components and the environment. It is at 20°C for about 2 hours. Higher temperatures shorten, lower temperatures extend the pot life. It is always on the MV 1: 5 hardener: solution to pay attention. Mixed Ipapox ET compound must not be used after the processing time has elapsed.

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### **Ipapox EW Primer:**

Application by brush, brush, roller or rubber squeegee. If crack bridging of 0,2 mm is required in the fresh primer a non sliding textile mat 260 gr/m<sup>2</sup> will be installed in fresh condition. The fresh primer ( with no glasmat ) is then sprinkled with quartz sand in the case of filler layers, or can be freshly reworked in fresh. Thin coatings must be reworked within 24 hours.

### **Ipapox EW Thin Layer :**

Uniform application of the mixed mass by brush, brush or roller. By changing the proportion of Ipapox EW fine gray, the finished mixture can be adjusted according to the requirements. After about 24 hours, the next layer can be applied.

### **Ipapox EW Selflevelling Troweling:**

The final mix is applied on the prepared surface with the help of a notched trowel. We recommend a spiked roller be used to free trapped air.

### **Ipapox EW Trowelings:**

Uniform, even application of the mixed mass by trowel or smoothing chip.

### **Ipapox EW Tilings:**

For laying and bedding of ceramic tiles, the same mixing ratio as for the corresponding trowellings can be used.

## **II.6 Working Tools**

Balance, plastic bucket, stirrer with stirrer and mixing tool set. Forced mixer, brush, brush, roller, trowel, smoothing chip and rubber squeegee

## **II.7 Cleaning**

Cleaning the tools: Wash with Ipa Active Cleaner

Cleaning of face and hands: water and soap, as well as gentle to the skin.

## **II.8 Waiting time to the stress**

The finished coating can be walked on after 24 hours, after 3 days mechanically and after 7 days chemically fully loaded. This information is based on a temperature of approx. 20 ° C.

## **Safety Instructions**

### **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

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- 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.

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