

## EPOXY COAT

### Two-component epoxy coating system

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#### **Description**

EPOXY COAT is a two-component epoxy formulation composed of solvent-free epoxy resins.

EPOXY COAT is self-levelling and ideal for low thickness coats and for the preparation of surfaces with sand quartz.

It is applicable on concrete, screeds, tiles, wood and metal.

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#### **Features**

- Easy to use
- High mechanical resistances
- Self-levelling and great workability
- Excellent adhesion to any substrate: concrete, sand cement screeds, self-leveling stone, brick, metal, wood etc...

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#### **Fields of use**

- As a consolidating coating for substrates with and without mesh.
- Used with sand quartz of suitable size as a priming coat for Microtopping®, Architop®, Lixio® and Lixio® Plus, Ideal Skin
- To repair cracks in concrete, stone and brick constructions.
- For the execution of epoxy screeds with added quartz. (It is recommended to use the specific product IW Epoxy Screed).

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#### **Application**

##### **Surfaces preparation**

The substrate must be dry with a moisture content of not more than 5%.

In the presence of evaporation from the slab, BARRIERA CEM must be previously applied to create a chemical vapour barrier.

Applications on concrete can only be carried out after complete curing of the substrate or after application of Barriera Cem.

The substrate must be clean, free of dust, loose particles, cement grout and pollutants, it must be prepared as for sandblasting, polishing, grinding or sanding and then carefully vacuumed and cleaned.

##### **Mixing the material**

EPOXY COAT is a bi-component product supplied in pre-dosed packs. Add component B to component A (15: 100), mix thoroughly at low speed for 3-5 minutes, scraping the walls and the bottom of the bucket to obtain a complete mixture. To make coatings add 15-20% of quartz 0.1 - 0.5 mm to the mix.

## Application procedure

- Apply the mixture evenly with an American spatula.
  - For the execution of primers, broadcast quartz (size depends on system used) over the entire surface.
  - Wait until completely hardened (12-24 hours, depending on the climatic conditions) and remove the excess quartz (can be recycled). Sand and vacuum
- If necessary, apply a 2nd coat by repeating the same procedure.

## Technical data

After mixing the two components, the catalysis reaction that leads to hardening of the product starts immediately. The time available for using EPOXY COAT is shortened with increasing temperature.

Temperature	Time to use the product	Hardening
+ 10°C	100 min	12 hr
+ 15°C	45 min	9 hr
+ 25°C	30 min	6 hr
+ 35°C	20 min	3 hr

## Mixing ratio

**A+B = 100+15**

## Mechanical resistance (after 7 days at 23°C)

BONDING STRENGTH (N/mm <sup>2</sup> )	> 4,5
COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	> 90
FLEXURAL STRENGTH (N/mm <sup>2</sup> )	> 60
MODULUS OF ELASTICITY (N/mm <sup>2</sup> )	2.800
ELONGATION	About 2,4%

## Coverage

The mixing ratio comp. must be maintained. A + Comp. B = 100 + 15.

Consumption may depend on substrate, methods of application and the possible use of fiberglass mesh.

## TABLE OF CONSUMPTION

	EPOXY COAT (A+B) Kg/m <sup>2</sup>	QUARTZ	
		Mix 20% with epoxy Kg/m <sup>2</sup> (0,1-0,5 mm)	Broadcasting Kg/m <sup>2</sup>
Substrate consolidation	0.8	0,16	----
Base for Microtopping®/ Ideal Skin	0.8	0,16	0,1-0,5 mm 4,0 kg** /2,5*
Base for Lixio®	0.8	0,16	0,7-1,2 mm 2,5 kg** /2,0*

Base for Lixio® Plus	0.8	0,16	1,0-2,0 mm 2,5 kg** /2,0*
Base for Architop®	0.8	0,16	0,7-1,2 mm 2,5 kg** /2,0*
Mesh application***	1.50	0,30	0,1-0,5 mm 4,0 kg** /2,5*

\*\* broadcasting consumption, a part of which is recovered for reuse

\* Net consumption

\*\*\* It is advisable to use IW BLOCKER (see technical data sheet)

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### **Package and storage**

Packaging A + B = 23 Kg. The product can be kept for at least one year in the original sealed container at a temperature between +10°C and +30°C.

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### **Warning**

Under high temperature conditions, the mixed compound stored in a metal container can cause the development of vapours. The phenomenon is not a problem but it is recommended to strictly prepare only the necessary quantity.

Epoxy resins can cause irritation; avoid contact with skin and eyes. In case of contact, wash with plenty of water for 10/15 min and consult a doctor. Do not use solvent.

Always wear gloves, protective suit and goggles.

In the case of prolonged use of epoxy resins, the use of a protective cream such as Turexan is recommended.

To clean tools use solvents such as acetone, alcohol, toluene, trichlorethylene or others.

Do not reuse emptied containers.

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### **IMPORTANT**

All information contained herein is based on the best and most recently available practical and laboratory testing. It is the customers responsibility to determine that the product is suitable for their chosen application. The manufacturer assumes no responsibility for the results of incorrect applications. You should always test on a small area before full scale application. This document replaces all previous versions. The data can be changed at any time. Also note that the products are intended for professional use only. Ideal Work provides training, updates and refresher courses for their regular customers on request. Anyone using these products without being enabled does so at their own risk.

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