

icoforce epoxy



Product description

Two-component, water-based, epoxy resin coating with specific "active hydraulic-catalytic reaction" pretreated binder-matrix additives.

Uses

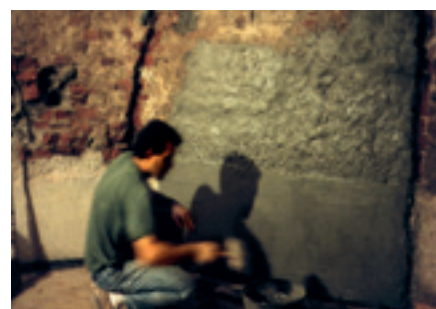
1. Waterproofing of below-grade structures in direct contact with water (such as reservoirs, storage tanks and elevator pits).
2. Waterproofing of masonry or concrete structures subject to rising damp or negative water pressure (such as basements, foundation or retaining walls), thanks to the water vapor permeability.

Features / Benefits

- High bonding strength to a variety of substrates.
- Impervious to water.
- Paintable and recoatable.
- Permeable to water vapor.
- Prevents saline efflorescence (sulfates, nitrates, carbonates, etc.).

Precautions

- As with all two-component products, pay close attention to the mixing phase.
- Full curing requires 24 to 72 hours depending on wind and temperature. Colder temperatures and high humidity extend the curing process.
- Additional resin coats may be applied after full curing and further to the use of suitable epoxy primers.
- Keep from freezing.
- Apply at temperatures between +5°C and +30°C.
- Substrates with saline efflorescence must be dry cleaned in advance.
- Moisten cement substrates to saturation before use (prevent water from ponding) and avoid applying under direct sunlight.
- Use suitable reinforcements in the areas subject to high mechanical strain.
- Avoid contact with chlorinated water.
- To plaster, apply wet on wet.
- To plaster after a long wait, sand the surface first, then apply a fresh coat of ICOFORCE EPOXY and then plaster wet on wet.



Surface preparation

- Clean substrate thoroughly to remove dust, loose material or non-adhering particles, grease, oil and anything that may affect proper adhesion. Use shot blasting, milling, wet sand blasting or single-disc grinding machines; select appropriate tools according to substrate type and state of degradation.
- In case of power washing or wet sand blasting, ensure the substrate is free of excess water.
- Smooth out the substrate.
- Active leaks must be repaired with ICOFORCE AQUA STOP beforehand (see relevant TDS).



Application instructions

- Empty Component A into Component B and mix thoroughly until a uniform consistency is achieved.
- Moisten the surface avoiding water accumulation.

Use #1 (reservoirs, storage tanks, etc.)

A. By brush

Dilute the mixture with 10-20% water and apply at a minimum rate of 2.0 kg/sqm. Adjust dilution to desired consistency, substrate type and absorption rate.

B. By trowel

Dilute the mixture with 5% water and apply at a minimum rate of 2.0 kg/sqm.

Use #2 (basements, foundation walls, etc.)

A. By brush

Dilute the mixture with 10-20% water and apply at a minimum rate of 2.0 kg/sqm. Adjust dilution to desired consistency, substrate type and absorption rate.

B. By trowel

Dilute the mixture with 5% water and apply at a minimum rate of 2.0 kg/sqm. To achieve superior performance, increase product consumption and thickness depending on the rate of negative hydrostatic pressure. For thickness ≥ 3 mm apply the product undiluted in two coats; the first coat by notched trowel, the second by flat trowel.

Apply the second coat wet on wet: after minimum 3 hours and no later than 8 hours (at $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$).



Application methods

- Trowel
- Tampico bristle or hard polypropylene bristle brush.

Safety instructions

- See Safety Data Sheet (SDS)

TECHNICAL DATA

PRODUCT FEATURE	MEASURE	UNIT
Type of product	two component	
Density (A+B)	1.58 (± 0.05)	kg/lit
Solid content (weight)	80.1 (± 2%)	%
Catalysis ratio (A : B)	20.3 : 79.7	
Dilution (water)	5 – 20	%
Drying time (+23 °C ± 3 °C)	12	hours
Curing time (+23 °C ± 3 °C)	48	hours
Adhesion test	> 35	kg/sq.cm.
Dry film thickness (1 kg/sqm)	0.50	mm
Pot life (+23 °C ± 3 °C)	50 (200 gr)	minutes
Water vapor permeability UNI-ISO 7783 (200 µm)	> 150	g/sqm/24h
Negative pressure test UNI-8298/8 (4.93 mm)	1000	KPa
Waiting time before applying a second coat (+23°C ± 3°C)	3 to 8	hours
Application temperature	+5 to +30	°C
Color	Gray	
Shelf life	12	months

Storage

- Store in a dry, well-ventilated place at temperatures between +5 to +30°C

Packaging

- 20-kg PE-PP pails (A+B).

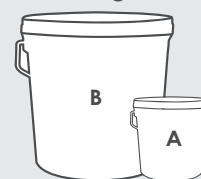
Color

- Gray



PACKAGING

20 Kg



TOOLS



TROWEL



TAMPICO BRUSH

Please e-mail us at: assistenza@icobititalia.com

Our technical service will address your requests.

Ensure that the TDS is up to date: the latest version can be viewed and downloaded at icobit.com

The manufacturer reserves the right to amend the product specifications without notice. The above performances were measured according to the standards in force at the time of issue and represent the average results of our tests. Although highly reliable, they do not constitute a binding commitment nor liability for Icobit Italia S.r.l. The purchaser and the end consumer acknowledge responsibility for the product suitability to the intended use.



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