



# icobit®

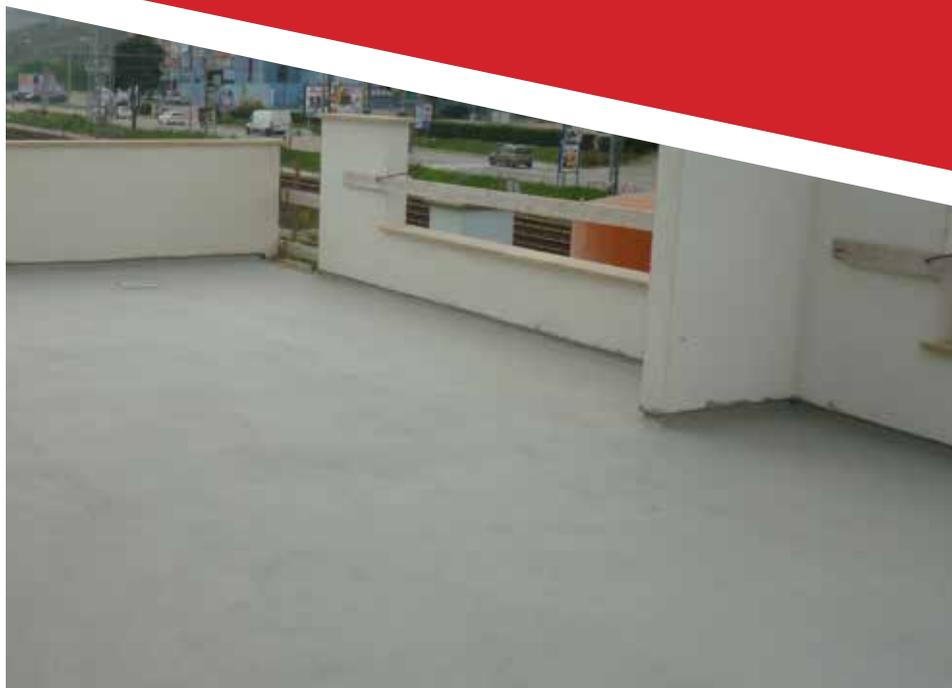
WATERPROOFING SYSTEMS

*Fiber reinforced,  
ready-to-use,  
cold applied,  
seamless  
waterproofing  
membrane*



# icoper®-hp

Fiber-Reinforced Seamless Membrane



# icoper<sup>®</sup>-hp

## USES

Liquid-applied waterproofing membrane for use underneath ceramic tiling directly bonded with adhesives. Suitable for terraces, balconies, vertical tiling in bathrooms and showers, flat and pitched roofs, gutters, eaves, sheds, facades, polyurethane-foam insulated roofs, concrete storage tanks for non-aggressive liquids and non-potable water, exposed walkable roof decks, degraded flooring, and also (in the **icoper<sup>®</sup>-hp** Anti-Root version) green roofs, roof gardens, planter boxes.



## FEATURES

**CE marking as per EN 14891:2012**  
**Ready-to-use, standard dispersion liquid-applied waterproofing membrane (DM) with improved crack bridging ability at low temperature (-5°C) (O1).**  
**Fiber-reinforced (no fiberglass mesh required).**  
**A suitable adhesive for tiling and flooring can be directly bonded to the waterproofing surface.**  
**UV resistant.**  
**Easy to apply.**  
**Environmentally friendly, safe, free from solvents and other harmful substances.**  
**Directly walkable, resistant to ponding water on flat surfaces.**

## SURFACE PREPARATION

The substrate must be clean, dry, free from loose material, dirt, dust, oil, grease, additives, formwork release agents, residue from other treatments and anything that may affect proper adhesion. The support must be dry. Allow complete drying after water blasting. Seal floor-wall transitions, control and isolation joints with **icojoint MS** sealant cartridge. Expansion joints must be treated separately.

## Terraces and balconies

Smooth out the surface if needed.

Prime with **icoper<sup>®</sup>** (general purpose version) diluted with ½ liter of water per kg.

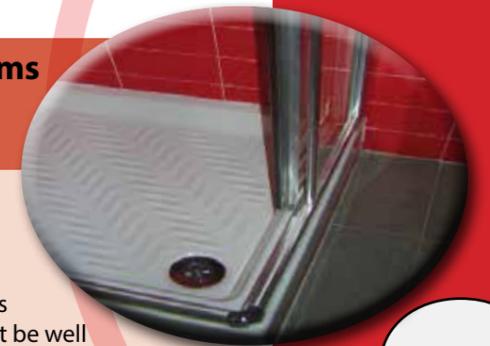
Coverage of the mixture: approx. 5 sq.mt.



## Bathrooms and showers

Apply to sound, compact surfaces. Cementitious plasters must be well bonded to the substrate.

Prime with **icoper<sup>®</sup>** (general purpose version) diluted with ½ liter of water per kg. Coverage of the mixture: approx. 5 sq.mt.



## Tiled surfaces

Check the grouts, remove and restore the portions of the existing floor that do not adhere properly. Prime with **icoforce**. Spread rate: 300 gr/sq.mt.



## APPLICATION INSTRUCTIONS

Apply to fully cured substrates, as moist and subsequent outgassing may result in blistering or delamination. Once the "SURFACE PREPARATION" has been thoroughly executed, apply two or more coats of **icoper<sup>®</sup>-hp** by flat trowel, brush or squeegee, at a coverage rate of no less than 2 kg/m<sup>2</sup> (0.4 lbs/sq.ft.).

Apply consecutive coats in crossed directions to ensure optimal fiber distribution.

Apply consecutive coats in contrasting colors in order to easily check the correct spread rate.

Let the product cure for minimum 48 hours prior to tiling (curing time is affected by the external temperature and humidity).

Test the watertightness of the cured surface prior to overlaying with tiles. According to the EN 14891 European Norm, a C2 Improved Cementitious Adhesive is required for the application of tiles and flooring, such as Icobit's **TopFlex**.

**TopFlex** is a C2 class adhesive with additional T, E and S1 performances as per EN 12004: deformable, with reduced slip and extended open time.

Tools can be cleaned with water while the product is wet.



## REMARKS

- **icoper<sup>®</sup>-hp** is ready to use and therefore does not need being diluted nor reinforced with mats or meshes.
- Apply at temperatures between +5°C and +35°C (+41°F and +95°F)
- Avoid applying to damp supports and lightweight screeds, or in case of negative thrust.
- Wait for full substrate curing before applying to new concrete.
- Do not apply to supports with underlying concealed waterproofing. In such cases, please contact our Technical Division.
- Add vapor vents when needed.
- Avoid applying thick layers in one coat.
- Possible residual stickiness can be removed by sprinkling talc or cement.
- Protect from rain, fog and dew until cured.

## Exposed walkable decks

Smooth out possible unfinished or hollow areas and repair damaged portions.

Prime with **icoper<sup>®</sup>** (general purpose version) diluted with ½ liter of water per kg. Coverage of the mixture: approx. 5 sq.mt.



## DETAILING

Critical points such as floor to wall transitions, drains and vapor vents require specific treatment.



# icoper<sup>®</sup>-hp

# TECHNICAL DATA

PRODUCT FEATURE	MEASURING UNIT	MEASURE
Density	g/ml	1.29
Solid Content	%	70.5
Watertightness *		passed
Drying Time	hours	6
Curing Time	hours	24
Dry Film Thickness (at 2 kg/sq.mt.)	mm	1.1 (± 1%)
Creep Resistance at 80°C (176°F)	mm	0.1
Tensile elongation	%	51.65
Tensile Strength	MPa	2.0
Cold Flexibility	°C	-20
Dilution		Ready to use
Shelf Life	months	12

Data measured at +23°C ± 3°C (73°F ± 5°F) with a coverage rate of 1 kg/m<sup>2</sup> (3.3 lbs/sq.ft.)  
 \* Tested internally in accordance with EOTA TR-003

## FINAL PERFORMANCES as per EN 14891:2012

	MEASURING UNIT	EN 14891 MINIMUM STANDARD	icoper®-hp PERFORMANCE
Initial Adhesion Strength (item A.6.2)	N/mm <sup>2</sup>	> 0.5	1.3
Adhesion Strength after water immersion (item A.6.3)	N/mm <sup>2</sup>	> 0.5	1.4
Adhesion Strength after heat aging (item A.6.5)	N/mm <sup>2</sup>	> 0.5	1.4
Adhesion Strength after freeze-thaw cycles (item A.6.6)	N/mm <sup>2</sup>	> 0.5	1.1
Watertightness (150 KPa)		no penetration	no penetration
Crack Bridging Ability at 23°C (item A.8.2)	mm	> 0.75	1.28
Crack Bridging Ability at -5°C (item A.8.3)	mm	> 0.75	1.22

Adhesion measured with a **C2** cementitious adhesive, in accordance with **EN 12004**

## COLORS

Standard (Std)	Plus	Extra
		

## STORAGE

- Store in a covered, dry area.
- Keep containers tightly closed.
- Do not expose to temperatures below freezing or exceeding +50°C.

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.

## PACKAGE



**5 • 10 • 20 Kg**  
**(11 • 22 • 44 lbs.)**

## Application Methods



**Flat Trowel**



**Brush**



**Squeegee**

TDS icoper®-hp 2015