



icopas

**Extremely elastic, seamless, polymer-modified bitumen
waterproofing membrane resistant to temperatures
as cold as -50°C**



TECHNICAL DATA SHEET



icopas



Product description

ICOPAS is a liquid waterproofing membrane consisting of high-grade bitumen modified with latest-generation polymers and providing high mechanical performance as well as outstanding elastic properties even with temperatures down to -50°C .

Uses

Waterproofing of flat and sloped roofs, concrete decks, weathered bitumen felts, foundations, retaining walls, green roofs, planter boxes, gutters, valleys, flashing, roofing details.

Also available in the following versions:

- HP (fiber reinforced) for localized detailing;
- AR (root resistant) specific for green roofs, planter boxes and roof gardens.

Features / Benefits

- Resistant to service temperatures as cold as -50°C (-58°F)
- Tensile elongation over 2000%
- Seamless waterproofing
- Easy to apply
- Impervious to water
- Flexible and conformable to irregularly shaped substrates

Precautions

- When waterproofing retaining walls, reinforce cured ICOPAS with protective layers prior to backfilling.
- Stir up the sediment that may have settled at the bottom of the can. Avoid using electric mixers.
- Do not apply during the hotter part of the day, with intense sunlight or if rain, fog or dew are expected.
- Exceeding the recommended rate per coat may result in unaesthetic blistering or pinholes and may prolong curing time.
- If intended to be left exposed, ICOPAS must be protected from UV rays with a specific ICOBIT finish.
- For vertical surfaces, reduce the spread rate per coat to 600-700 gr/sqm.
- Do not use universal bitumen primers.
- For outdoor use only.
- Allow newly placed concrete to cure fully. Consider specific treatments in case of moist substrates and/or rising damp.



Surface preparation

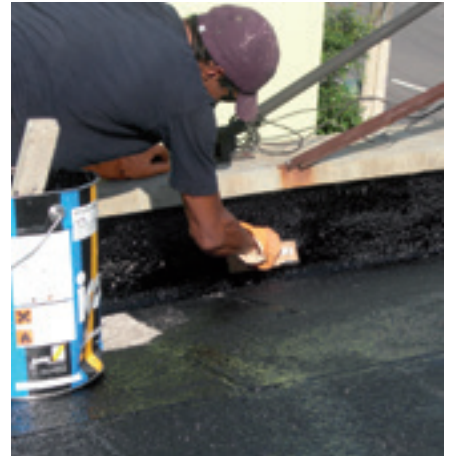
Clean surface thoroughly and remove dust, loose material or non-adhering particles, grease, oil and anything that may affect proper bonding. Substrates must be cured, dry, sound, solid and not exposed to rising damp or evaporative flows. Joints, seams and overlaps must be treated appropriately as per industry standards.

- **Concrete:** Prime with ICOPAS-P at a rate of 250-300 gr/sqm (see TDS).
- **Bitumen roofing:** Remove loose, flaking paint. Repair degraded areas, loose overlaps and upstands, missing or bulging felt portions.
- Smooth-surfaced membranes: No priming required;
- Mineral-surfaced membranes: Prime with Icopas-P (see Concrete above).
- **Sheet metal:** remove oxidized spots and apply ICOPOX PM 102 rust inhibiting primer at a rate of 150 gr/sqm.



Application instructions

- Apply two or more coats of ICOPAS at minimum 24-hour intervals, and however once the previous coat has cured. Minimum overall spread rate: 2 kg/sqm.
- The areas that are potentially subject to extra mechanical strain should be reinforced with the 100-gr/sqm ICOARM TNT ROLL or TNT Band nonwoven fabric.
- Tools may be cleaned with mineral spirits or with the specific ICODIL SX solvent



PRODUCT PERFORMANCE

HARMONIZED STANDARD EN 1504-2:2004

TEST METHOD	ESSENTIAL CHARACTERISTIC	REQUIREMENT
EN 1062-6	Permeability to CO ₂	$S_D > 50m$
EN ISO 7783-1-2	Water vapor permeability	CLASS II ($5 < S_D < 50m$)
EN 1062-3	Capillary absorption and water permeability	$w < 0.1 \text{ Kg/m}^2 \cdot \text{h}^{0.5}$
EN 1542	Bond strength by pull off test	$\geq 0.8 \text{ MPa}$
EN 13501-1	Reaction to fire	Euroclass E
	Dangerous substances	see SDS



TECHNICAL DATA

PRODUCT FEATURE	MEASURE	UNIT
Type of product	one component	
Dilution	ready to use	
Density	0.98 (± 0.05)	Kg/Lt
Solid content	57 (± 2)	%
Viscosity	~ 3000	mPa · s
Full curing at 23°C (±3°C)	24	hrs
Tensile elongation at break	> 2000	%
Tensile strength	1.5	MPa
Cold flexibility	-50 (-58)	°C (°F)
Number of coats (minimum excl. primer)	2	No.
Spread rate per coat	1	Kg/sqm
Dry film thickness per coat (at 1 kg/sqm)	0.5	mm
Color	black	
Shelf life	24	months

Safety measures

See SDS

Storage

Store in cool, dry, well-ventilated areas away from heat sources, at temperatures above freezing.

Color



Black

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.



ICOBIT ITALIA SRL
Viale Luca Gaurico 9/11 00143 Roma (Italy)
C.F e P.I. 12428711001
www.icobit.com | info@icobititalia.com

PACKAGING



APPLICATION METHODS



BRUSH



ROLLER



AIRLESS SPRAY