

ICOPAL SFT ADHESIVE

Single Component solvent free adhesive

INTRODUCTION

ICOPAL SFT ADHESIVE is an adhesive for gluing waterproofing membranes and insulation boards.

This adhesive has been specially developed for watertight gluing, full adhesion or detailing (side laps, end laps, upstands).

DESCRIPTION

ICOPAL SFT ADHESIVE is a single component adhesive, non toxic and solvent free. It's a blend of proprietary polymers and modifiers engineered to cure completely in a large variety of ambient conditions over various substrates.

SCOPE OF APPLICATION

ICOPAL SFT ADHESIVE can be used as an adhesive over:

- Various kind of bearing elements like Galvanized steel and Wood.
- Any bituminous waterproofing membrane with the below kind of surface: Syntan®, Sand, Granules or Slates, Metallic foils. ⁽¹⁾
- Insulation boards: PUR and PIR with paper or laminate aluminum facers, Mineral Wool, Cellular Glass. ⁽²⁾

The support doesn't need to receive a bituminous primer before installation of **ICOPAL SFT ADHESIVE**.

- (1) the membranes without any kind of self protection, like APP or naked SBS, are not referred.
(2) EPS or XPS insulation boards are not allowed to be glued with this glue.

ADVANTAGES

- Solvent free
- No dangerous component: no labeling. do not contain isocyanates.
- High performance on various substrates
- High resistance to water, grease, and climatic variations.
- Watertight
- Indoor use : comply with health requirements

TECHNICAL CHARACTERISTICS

Color: Black

Solid content >99%

Viscosity: 52 000 ± 3 000 cPs ($\gamma = 10 \text{ s}^{-1}$, 23°C)
 γ : shear rate

Density # 1.6 g/cm³

Temperature of use: +5 to 25°C

Skin formation ⁽³⁾ 10 min

Curing mechanism: moisture curing

Curing depth after 24h ⁽⁴⁾: > 2mm

Laps treatment watertight after 1h

Tensile strength (after storage during 7 days at 23°C and 50% RH)	DIN 53504 S2	> 2N/mm ²
Resistance to elongation (after storage during 7 days at 23°C and 50% RH)	DIN 53504 S2	> 150%
Shear strength resistance	EN 12317-1	500N/5cm ⁽⁵⁾
Peeling resistance After 1 week (6)	EN 12316-1	50N/5cm

(3) maximum recovery time

(4) will depend on the climatic conditions

(5) bonding between mineral self protected face and sanded face

(6) bonding between 2 sanded faces

Product Technical Information

ITA/ATEXP/649

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CONSUMPTION

⇒ Mechanical assembling of a bituminous membrane (membrane bottom side: Syntan® or sand) with the below listed support.

Kind of support	Consumption (g/m ²)
	150(*) to 250(**)
Wood	(*) bonding by cords of 50g/linear meter (3 cords per m ² / 150gr/m ²).
Steel	
Insulation boards	(**) bonding by studs of 50g/stud (5 studs per m ² / 250 gr/m ²)

⇒ Non watertight bonding of insulation boards

Kind of support	Consumption (g/m ²)
	150(*) to 250(**)
Wood	(*) bonding by cords of 50g/cord 10 to 15mm wide (3 cords per board 600x1200mm).
Steel	
Bituminous waterproofing membrane	(**) bonding by studs of 50g/stud (5 studs per board 600x1200mm)

⇒ Watertight bonding (end laps, side laps, upstand)

Kind of support		Consumption (kg/m ²)
		0.8 to 1
Wood		Depending on the kind of support
Steel		
Bituminous waterproofing membrane		
Kind of surface	Kind of bottom face	
Syntan, sand	Syntan, sand	0.8 to 1 Depending on the kind of faces
Granules/slates or metallic foil	Syntan, sand	1.5 to 1.8 Depending on the kind of faces
Upstands treatment	A double bonding can be done with a consumption of 1500g/m ² and an open time of 10 min before closing. Apply 750 gr/m ² on the support and 750gr/m ² on the membrane bottom side, wait for opening time and then install.	

PREPARATION OF THE SUPPORT

The substrates must be clean, dry, oil and grease free. Depending on the surface it can be necessary to clean the surface to provide optimum adhesion.

APPLICATION

Application from cartridge/sausages is made with a hand gun (cords) and a notched spatula (notches of 2mm spaced by 2mm) to spread the glue. **ICOPAL SFT ADHESIVE** can also be installed from the buckets or from the cans with a notched spatula (notches of 2mm spaced by 2mm) for full bonding area.

CLEANING

For cleaning application equipment contaminated with uncured **ICOPAL SFT ADHESIVE**, we recommend the use of a dry cloth.

STORAGE

Frost sensitive: No

Recommended storage temperature +5 to 25°C

Shelf-life: 12 months in original packaging

PACKAGING

Cartridges: 300ml

Sausages: 600ml

Cans: 4kg

Buckets: 14 kg

