SINTOGLASS

Compound	Cold Flexibility
APP	0°C

CHARACTERISTICS

SINTOGLASS is a polymer-modified waterproofing membraneobtained from the modification of distilled bitumen with polyolefin based co-polymers. The modified compound makes SINTOGLASS easy to apply membranes that requires low consumption of gas and has excellent adhesion properties that ensure, when the membrane is properly installed, very good bonding and tightness of all joints and overlaps.

CARRIER

The carrier is made of glass fibre with longitudinal reinforcements which provide SINTOGLASS with high dimensional stability, making it the ideal base sheet in various waterproofing systems.

INTENDED USE ACCORDING "CE" MARK STANDARDS

Underlay or intermediate layer in multi-layer systems for roof waterproofing (EN 13707)	**SINTOGLASS** 3,0 – 4,0 kg/m^2
Waterproofing layer under slates or tiles (EN 13859-1)	**SINTOGLASS MINERAL** 3,5 – 4,0 kg/m^2

AVAILABLE SURFACE FINISHES

Upper surface: SINTOGLASS: sand;upon request talcor plastic HDPE film.
SINTOGLASS MINERAL: self-protection by means of slate flakes available in standard grey or other various colours upon request.

Lower surface: Polyethylene fast burning film. For cold applications by means of adhesive the use of sand finishing on the lower surface is recommended.

USE & APPLICATION

SINTOGLASS is recommended as a base sheet or intermediate layer in multi-layer waterproofing constructions for flat, pitched or vaulted roofs. In case of direct exposure to weathering agents, SINTOGLASS shall be protected with reflective paint or by a layer of self-protected (mineralised) membrane.
SINTOGLASS MINERAL is used as waterproofing layer under slates, tiles and discontinuous roofing in general.
Subject to the type of substrate it shall be installed by means of a propane gas torch or approved adhesives. In any case it is recommended to prepare substrate with fixative bituminous PRIMER W (water base) or PRIMER S (solvent base).
For cold applications on primed concrete surfaces SINTOGLASS membranes shall be installedusing COPERGLUE BASE (over horizontal areas) or COPERGLUE VERTICAL (parapets and elevations) bituminous adhesives. Side laps, head joints and small repairs shall be made using COPERGLUE JOINT adhesive. For cold applications over insulation board (Polystyrene, PUR or PIR) COPERMAST bituminous mastic shall be used.
For correct installation refer to information provided by Copernit Technical Department.

Properties	Test Method	Unit	SINTOGLASS	SINTOGLASS MINERAL	Tol.
Length	EN 1848-1	m	10 (-1%)	10 (-1%)	≥
Width	EN 1848-1	m	1,0 (-1%)	1,0 (-1%)	≥
Unit weight	EN 1849-1	kg/m²	3,0 – 4,0	3,5- 4,0- 4,5	±10%
Tensile strength (at break) L/T	EN 12311-1	N/5 cm	300/200	300/200	±20%
Elongation (at break) L/T	EN 12311-1	%	2/2	2/2	±1
Tear resistance (nail test) L/T	EN 12310-1	N	70/70	70/70	±30%
Resistance to static loading	EN 12730 (A)	kg	NPD	NPD	≥
Impact resistance	EN 12691	mm	NPD	NPD	≥
Dimensional stability	EN 1107-1	%	NPD	NPD	≤
Flexibility at low temperature	EN 1109	°C	0	0	≤
Flow resistance at elevated temperature	EN 1110	°C	120	120	≥
Watertightness (method A)	EN 1928	kPa	60	60	≥
Resistance to water vapor diffusion (μ)	EN 1931	--	20.000	20.000	--
Reaction to fire	EN 13501-1	Class	E	E	--
Resistance to external fire	EN 13501-5	Class	F roof	F roof	--

COPERNIT S.p.A.
Via Provinciale Est, 64 - 46020 Pegognaga (MN) – Italy Tel. +39 0376 554911 Fax +39 0376 550177
www.copernit.it - email: info@copernit.it