



GB14/92057

ASTROPOL

Compound

APP

Cold Flexibility

-10°C
CHARACTERISTICS

ASTROPOL is a polymer-modified waterproofing membrane made of distilled bitumen modified with polyolefins and selected copolymers, that make it very adhesive and flexible at low temperatures. The special modified compound ensures ease of application, reduced consumption of gas and has excellent adhesion properties making ASTROPOL a safe, durable and weather resistant waterproofing membrane that has earned the fidelity of many clients with millions of m² applied over the years. ASTROPOL is one of Copernit's top selling products for several years.

CARRIER

The carrier is a spunbond polyester stabilised with longitudinal glass yarns that combine superior dimensional stability with good tensile strength and elongation values and high mechanical properties in general.

INTENDED USE ACCORDING "CE" MARK STANDARDS

Underlay or intermediate layer in multi-layer systems for roof waterproofing (EN 13707) Foundations or ground waterproofing (EN 13969)	Astropol 3,0 – 4,0 mm	
Top layer in multi-layer systems for roof waterproofing (EN 13707)	Astropol 4,0 mm	Astropol Tex 4,0 mm
Top layer in multi-layer systems for roof waterproofing (EN 13707)	Astropol Mineral 4,0 – 4,5 kg/m ²	

AVAILABLE SURFACE FINISHES

Upper surface ASTROPOL: sand; upon request talc or plastic HDPE film.
 ASTROPOL TEX: non-woven black polypropylene "ready-to-paint" film.
 ASTROPOL 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

ASTROPOL is recommended in multi-layer waterproofing constructions for flat, pitched or vaulted roofs, made of reinforced concrete cast on site or prefab, of terraces, under-floorings etc. When used as top layer, directly exposed to weathering agents, ASTROPOL and ASTROPOL TEX shall be protected with reflective paint, gravel, flooring or by a layer of self-protected (mineralised) membrane. ASTROPOL MINERAL is recommended as a waterproofing cap sheet layer for applications without other types of protection. Subject to the type of substrate it shall be installed by means of a propane gas torch, approved adhesives or by mechanical fixing. 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 apply with COPERGLUE BASE bituminous adhesive (over horizontal areas) or COPERGLUE VERTICAL (parapets and elevations). Side laps, head joints and small repairs shall be made with COPERGLUE JOINT. For cold applications over insulation board (Polystyrene, PUR or PIR) apply with COPERMAST bituminous mastic. For correct installation refer to information provided by Copernit Technical Department.

Properties	Test Method	Unit	ASTROPOL	ASTROPOL TEX	ASTROPOL MINERAL	Tol.
Length	EN 1848-1	m	10 (-1%)	10 (-1%)	10 (-1%)	≥
Width	EN 1848-1	m	1,0 (-1%)	1,0 (-1%)	1,0 (-1%)	≥
Unit weight (<i>versions specified by weight</i>)	EN 1849-1	kg/m ²	--	--	4,0 – 4,5	±10%
Thickness (<i>versions specified by thickness</i>)	EN 1849-1	mm	3,0 - 4,0	4,0	--	±5%
Tensile strength (at break) L/T	EN 12311-1	N/5 cm	600/500	600/500	600/500	±20%
Elongation (at break) L/T	EN 12311-1	%	35/35	35/35	35/35	±15
Tear resistance (nail test) L/T	EN 12310-1	N	150/150	150/150	150/150	±30%
Resistance to static loading	EN 12730 (A)	kg	15	15	15	≥
Impact resistance	EN 12691	mm	900	900	900	≥
Dimensional stability	EN 1107-1	%	±0,3	±0,3	±0,3	≤
Flexibility at low temperature	EN 1109	°C	-10	-10	-10	≤
Flow resistance at elevated temperature	EN 1110	°C	130	130	130	≥
Watertightness (method A)	EN 1928	kPa	60	60	60	≥
Resistance to water vapor diffusion (μ)	EN 1931	--	20.000	20.000	20.000	--
Reaction to fire	EN 13501-1	Class	E	E	E	--
Resistance to external fire	EN 13501-5	Class	F roof	F roof	F roof	--