

## ARCOFLEX HP

Compound  
**SBS**Cold Flexibility  
**-10°C**

## CHARACTERISTICS

ARCOFLEX HP is a waterproofing membrane made of distilled bitumen modified with SBS (styrene-butadiene-styrene) polymers that make it very elastic, resistant to thermal ageing and flexible at low temperatures. The elastomeric compound ensures ease of application, reduced consumption of gas and has excellent adhesion properties that ensure, when the membrane is properly installed, superior bonding and tightness of all joints and overlaps.

## CARRIER

The carrier is a non-woven reinforced spunbond polyester which provides good mechanical characteristics together with an excellent dimensional stability, making ARCOFLEX HP ideally suited for most waterproofing constructions.

INTENDED USE  
ACCORDING  
"CE" MARK  
STANDARDS

Underlay or intermediate layer in multi-layer systems for roof waterproofing (EN 13707) -

**ARCOFLEX HP**  
3,0 mm

Top layer in multi-layer systems for roof waterproofing (EN 13707)

**ARCOFLEX HP MINERAL**  
3,0 mm

AVAILABLE  
SURFACE  
FINISHES

Upper surface ARCOFLEX HP: sand; upon request talc, TEX (non-woven black polypropylene "ready-to-paint" film) or plastic HDPE film.  
ARCOFLEX HP MINERAL: self-protection by means of slate flakes available in standard grey or other various colours upon request.

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

USE &  
APPLICATION

ARCOFLEX HP is recommended as a base sheet or cap sheet layer 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. In case of direct exposure to weathering agents, ARCOFLEX HP shall be protected with reflective paint. ARCOFLEX HP 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 CPERMAST bituminous mastic. For correct installation refer to information provided by Copernit Technical Department.

Properties	Test Method	Unit	ARCOFLEX HP 3,0 mm	ARCOFLEX HP MINERAL 3,0 mm	Tol.
Length	EN 1848-1	m	10 (-1%)	10 (-1%)	≥
Width	EN 1848-1	m	1,0 (-1%)	1,0 (-1%)	≥
Thickness	EN 1849-1	mm	3,0	3,0	±5%
Tensile strength (at break) L/T	EN 12311-1	N/5 cm	600/500	600/500	±20%
Elongation (at break) L/T	EN 12311-1	%	35/35	35/35	±15
Tear resistance (nail test) L/T	EN 12310-1	N	150/150	150/150	±30%
Resistance to static loading	EN 12730 (A)	kg	15	15	≥
Impact resistance	EN 12691	mm	900	900	≥
Dimensional stability	EN 1107-1	%	±0,3	±0,3	≤
Flexibility at low temperature	EN 1109	°C	-10	-10	≤
Flow resistance at elevated temperature	EN 1110	°C	90	90	≥
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	--