

ARCOTHERM DX2 Bituminous membrane Technical Datasheet

Compound
SBS

Flexibility
-20 °C

rev. 10/2018

Description

ARCOTHERM DX2 is a special membrane that provides a “3 in 1” functionality:

1. Fulfills the role of a vapor barrier when used as the first waterproofing layer
2. Replaces the ARCO FORATO diffusion membrane and controls the equalization and evacuation of residual moisture from the substrate by means of inter-woven channels arranged between the THERMO adhesive stripes, both longitudinally and transversally;
3. Ensures a particularly good adhesion to the substrate through its THERMO stripes, while its upper side ensures that any thermo-insulating material (EPS, XPS, PIR) is bonded to 100%.

Composition

Compound: high-quality distilled bitumen, elastoplastomers, and heat-adhesive additives. Using high quality polymers in the membrane composition provides excellent properties against aging: elasticity, cold flexibility, and durability, thus extending the life expectancy of the roof.

Reinforcement

Depending on your choice of ARCOTHERM DX2, the available options are:

- ✓ fiberglass mat (DX2, DX2-SL)
- ✓ fiberglass mat coated with aluminum foil stabilized with PET (DX2-ALU)
- ✓ fiberglass fabric, 200 g/m² (DX-2 G200 SL)
- ✓ polyester fabric stabilized with GRID fiberglass (DX-2 PG200 SL)

Finish

- ✓ HDPE burn-off film that prevents sticking when rolled and melts during torch heating (available in DX2 and DX2-ALU variants)
- ✓ Removable (siliconized) PP film protecting the membrane surface and the side lap (available in DX2-SL, DX-2 G200 SL, DX-2 PG200 SL)

Application

- ✓ ARCOTHERM DX2 and DX2-ALU: directly by torch, overlapping and pressing the lower side with the THERMO stripes against the substrate
- ✓ ARCOTHERM DX2-SL, DX-2 G200 SL, and DX-2 PG200 SL: by positioning over the substrate, removing the siliconized film, and pressing. Maximum adherence is achieved by heat transfer resulting from heat released torching **the upper side of the membrane, thus avoiding the destruction of the substrates**

Technical characteristics for ARCOTHERM DX2 membranes – see page two

Technical characteristics	DX-2	DX-2 SL
Thickness, mm [SR EN 1849-1]	4	4
Length, m [SR EN 1848-1]	8	8
Compound, type	SBS + THERMO AD	SBS + THERMO AD
Reinforcement, type	Fiberglass mat	Fiberglass mat
Upper side finish	PE burn-off film	PE burn off-film
Lower side finish	Thermo AD stripes+ PE burn off film	Thermo AD stripes+ Removable (siliconized) PP film
Cold flexibility, °C [SR EN 1109]	-20	-20
Tensile strength, N/50mm (L/T) [SR EN 12311-1]	450 / 300	450 / 300
Elongation at breaking, % (L/T) [SR EN 12311-1]	4 / 4	4 / 4
Dimensional stability, % [SR EN 1107-1]	0,1	0,1
Heat stability, °C [SR EN 1110-1]	120	120
Watertightness, kPa [SR EN 1928]	60	60

Technical characteristics	DX-2 ALU
Thickness, mm [SR EN 1849-1]	4
Length, m [SR EN 1848-1]	8
Compound, type	SBS + THERMO AD
Reinforcement, type	Fiberglass mat + ALU foil stabilized with PET
Upper side finish	PE burn-off film
Lower side finish	Thermo AD stripes+ PE burn off film
Cold flexibility, °C [SR EN 1109]	-20
Tensile strength, N/50mm (L/T) [SR EN 12311-1]	500 / 300
Elongation at breaking, % (L/T) [SR EN 12311-1]	4 / 4
Dimensional stability, % [SR EN 1107-1]	0,1
Heat stability, °C [SR EN 1110-1]	120
Diffusion capacity, sd (m)	1500
Watertightness, kPa [SR EN 1928]	60

Technical characteristics	DX-2 G200 SL	DX-2 PG 200 SL
Thickness, mm [SR EN 1849-1]	4	4
Length, m [SR EN 1848-1]	8	8
Compound, type	SBS + THERMO AD	SBS + THERMO AD
Reinforcement, type	Fiberglass fabric, 200 g/m ²	Polyester fabric stabilized with GRID fiberglass
Upper side finish	PE burn-off film	PE burn-off film
Lower side finish	Thermo AD stripes+ Removable (siliconized) PP film	Thermo AD stripes+ Removable (siliconized) PP film
Cold flexibility, °C [SR EN 1109]	-20	-20
Tensile strength, N/50mm (L/T) [SR EN 12311-1]	1300 / 1300	1000 / 1000
Elongation at breaking, % (L/T) [SR EN 12311-1]	4 / 4	40 / 40
Dimensional stability, % [SR EN 1107-1]	0,1	0,3
Heat stability, °C [SR EN 1110-1]	120	120
Watertightness, kPa [SR EN 1928]	60	60

Standardization		
PE – polyethylene	PP – polypropylene	PET – polyester
P – polyester (reinforcement)	G – fiberglass fabric	
THERMO AD – bituminous compound modified with thermo-adhesive additives		