

STAR



Nature of product

The STAR prefabricated waterproofing membranes are obtained by coextrusion of a bituminous dispersion of micro-compatibilisers in a matrix of elastofin polymers and of a non-woven polyester reinforcement with dimensional stability controlled with longitudinally positioned mineral fibres, placed in the thickness of the membrane. The lower surface is always finished with the "TEXTENE" treatment, consisting of a layer of textured polymer fibres preformed in film. The upper face of the black version is powdered or with the same TEXTENE finish already present on the lower one. In the STAR ARD version weighing 4.5 kg/m², the upper face is treated with slate flakes.

The STAR membranes are characterised by high adhesiveness that allows improved anchorage to the substrate and a better seal of the joints between the sheets. The particular formulation offers excellent characteristics of elasticity and flexibility at low temperatures. They are packaged in rolls, taped and supplied with Quality Control certificates.

They comply with the requirements for CE marking, where applicable. They do not contain asbestos, tar or other dangerous substances.

Intended use

STAR membranes are intended for the creation of waterproofing works in general. In particular, they are specifically used in harsh climates or during the cold seasons. Moreover, compared to the use on roofs and in foundations, the different versions can be used with reference to the following diagram ⁽¹⁾. For clarification on the systems that can be obtained, in any case consult the Technical Services of IMPER ITALIA srl.

PRODUCTS	FIELDS OF USE ⁽¹⁾							
	Roofing (EN 13707)						Underlay (EN 13859-1)	Foundations (EN 13969)
	Exposed			Roof gardens	Under heavy-duty protection			
	Single-ply	Multi-ply		Root-resistant	Single-ply	Multi-ply		Multi-ply
Upper		Lower						
STAR 4 mm		•	•		•	•		•
STAR ARD/S 4.5 kg/m ²		•					•	

(1) In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

Application procedure

The application methods are a determining factor capable of characterising the performance of the waterproof covering itself. In general terms, we remind you to carry out careful preparation and cleaning of the substrate followed by the priming treatment with a suitable primer (applied with a long-handled brush, roller, spray), with a consumption of 0.2 ÷ 0.3 l/m² and in any case variable with the degree of porosity of the substrate itself. The membrane will be applied with the aid of a propane gas torch; particular care must be given to performing of sealing between the sheets always laid with staggered joints: the lateral joints must be installed with overlap of 8 ÷ 10 cm and the end joints with overlapping of 12 ÷ 15 cm. For correct and detailed documentation, as well as to identify the most effective intervention solutions in all circumstances, we recommend consulting the Technical Services of IMPER ITALIA srl which are in any case available for the consultation of particular problems as well as to provide all the assistance necessary for the best use of these materials.

TECHNICAL SPECIFICATIONS

Specifications	EN Standards	Unit of Measure	Tolerances ⁽²⁾	STAR	
				4 mm	ARD/S 4,5
Roll dimensions	1848-1	m	≥	10 x 1 (-1%)	
Thickness	1849-1	mm	±5%	4	-
Mass per unit area	1849-1	kg/m ²	±10%	-	
Watertightness	1928-B	kPa	≥	60	
Cold flexibility	1109	°C	≤	-18	
Flow resistance at elevated temperature	1110	°C	≥	+110	
L/T tensile strength	12311-1	N/5cm	±20%	500 / 350	
L/T tensile elongation	12311-1	%	±15	45 / 45	
L/T dimensional stability	1107-1	%	≤	0.25	
Static puncture	12730	kg	≥	NPD ⁽⁴⁾	
Dynamic puncture	12691-B	mm		NPD ⁽⁴⁾	
L/T tear resistance	12310-1	N	±30%	150 / 160	
Joint peel resistance	12316-1	N/5cm	±20	NPD ⁽⁴⁾	
Joint cut resistance ⁽³⁾	12317-1	N/5cm	±20%	Failure out of the joint	
Durability after aging::					
• Cold flexibility	1296-1109	°C	+15°C	-6	
• Flow resistance at elevated temperature	1296-1110	°C	-10°C	+110	
• UV Ageing	1297	-	-	NPD ⁽⁴⁾	
• Watertightness	1296-1928	kPa	≥	60	
• Chemical resistance	-	-	-	NPD ⁽⁴⁾	
• L/T tensile strength	12311-1	N/5cm	±20%	-	
• L/T tensile elongation	12311-1	%	±15	-	
Steam permeability	1931	μ	≥	20,000	
Root resistance	13948		-	NPD ⁽⁴⁾	
External fire behaviour	13501-5	EC ⁽⁵⁾	-	Froof	
Fire reaction	13501-1	EC ⁽⁵⁾	-	F	

Notes: (2) In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

(3) Value declared or Breakage Out of Joint.

(4) Characteristic not determined because it is not relevant for use.

(5) Euroclass.

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