TEXTENE FLEX

Nature of product

TEXTENE FLEX waterproofing membranes are obtained by coextrusion of a compound with a special elastomeric formulation, obtained from a complex dispersion of elastofin rubbers and copolymers in selected distilled bitumens and a "non-woven" reinforcement of stabilised polyester placed in the thickness of the membrane, in complete synergy with the same. TEXTENE FLEX membranes are produced in 3 and 4 mm thick versions. The lower side, anchoring to the substrate, is finished with TEXTENE® treatment, consisting of a layer of preformed film-textured polymer fibres. TEXTENE FLEX membranes are produced in rolls, taped and accompanied by control certificates. They comply with the requirements for CE marking where required.
They do not contain asbestos, tar, or other dangerous substances.

Intended use

TEXTENE FLEX membranes are particularly suitable when an excellent bonding to the substrate is required, such as in the case of waterproofing of earth-retaining walls, for driveways, etc.
The TEXTENE® finishing treatment, in place of the normal finishes, also allows greater cleaning during laying operations and lower environmental impact in terms of the release of powdery substances. The texturising treatment of the lower side improves the flame application of the membranes, making installation speeds faster and adhesion to the substrate more effective.
The following diagram specifies its use with respect to the intended uses for which the CE marking is required.
To identify the systems that can be obtained, consult the Technical Services of IMPER ITALIA srl.

PRODUCTS	FIELDS OF USE [1]								
	Roofing (EN 13707)						Under-tile (EN 13859-1)	Steam control (EN 13970)	Foundations (EN 13969)
	Exposed			Roof gardens	Under heavy-duty protection				
	Single-ply	Multi-ply		Root-resistant	Single-ply	Multi-ply			Multi-ply
		Upper	Lower						
TEXTENE FLEX 3			•			•			•
TEXTENE FLEX 4		• [2]	•			•			•

(1) In compliance with the applicable AISPEC/SITEB-MBP Guidelines.
(2) Providing colouring with compatible aluminium pigmented or coloured protective paints.

Application procedure

TEXTENE FLEX membranes are normally installed via flame after priming with a suitable primer, or with mechanical fixing. In general, they can also be applied with the "cold" laying system using the specific ADITHENE adhesive. The application methods are a determining factor capable of characterising the performance of the waterproof covering itself. TEXTENE FLEX membranes are easy and versatile to apply via flame with normal equipment consisting of a propane gas burner, a trowel and a blade. 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 (1)

Specifications	EN Standards	Unit of Measure	Tolerances (1)	TEXTENE FLEX	
				3	4
Roll dimensions	1848-1	m	≥	10 x 1 (-1%)	
Thickness	1849-1	mm	±5%	3	4
Mass per unit area	1849-1	kg/m²	±10%	-	-
Watertightness	1928-B	kPa	≥	60	
Cold flexibility	1109	°C	≤	-20	
Flow resistance at elevated temperature	1110	°C	≥	+100	
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 / 0.25	
Static puncture	12730	kg	≥	NPD (2)	
Dynamic puncture	12691-B	mm	≥	NPD (2)	
L/T tear resistance	12310-1	N	±30%	150 / 160	
Joint peel resistance	12316-1	N/5cm	±20 N	-	
Joint cut resistance (3)	12317-1	N/5cm	±20%	-	
Durability after aging::					
• **Cold flexibility**	1296-1109	°C	+15°C	-5	
• **Flow resistance at elevated temperature**	1296-1110	°C	-10°C	+100	
• **UV Ageing**	1297	-	-	NPD (2)	
• **Watertightness**	1296-1928	kPa	≥	60	
• **Chemical resistance**	-	-	-	NPD (2)	
• **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 (2)	
External fire behaviour	13501-5	EC (4)	-	Froof	
Fire reaction	13501-1	EC (4)	-	F	

Notes: (1) In compliance with the applicable AISPEC/SITEB-MBP Guidelines.
(2) Characteristic not determined because it is not relevant for use.
(3) Or off-joint breakage
(4) Euroclass.

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