

THERMO SEAL

DESCRIPTION: Plastic sheet with non-woven synthetic fibres on both sides, for waterproofing floors and walls on flat roofs, terraces, balconies, pools, planters, fountains, and other outdoor and damp interior surfaces.

USE: Fixed with cement adhesive in the adhered system and the sheet protected under coating. Overlaps can be welded.

STANDARDS: : EN 13956:2013

MANUFACTURER: ESTIL GURU S.L.U.

REFERENCES: Presented in rolls individually packed.

REFS.	MEASURE	UNIT	WIDTH	LENGTH	SURFACE (M ²)	WEIGHT (KG)
IR53000	1,5 x 20	m	1,5	20	30	11,3
IR54000	2 x 20	m	2	20	40	15
IR52000	1 x 30	m	1	30	30	11,3



TESTING TABLE:

Essential characteristics in accordance with Annex ZA of the standard:

CHARACTERISTICS	METHOD	UNIT	TOLERANCE	VALUE
Water tightness	EN 1928	-	-	PASSA
Reaction to fire	EN 13501-5	CLASSE	-	E
Tensile properties:				
Tensile strength: L // T*1	EN 12311-2 (A)	N/50 mm	-	≥200 // ≥200
Elongation: L // T		%	-	≥50// ≥80
Resistance to static load	EN 12730 (B)	Kg	-	≥20
Impact resistance	EN 12691 (A)	mm	-	≥500
Resistance of overlaps:				
Peel resistance	EN 12316-2	N/50 mm	-	PND
Shear resistance	EN 12317-2	N/50 mm	-	PND
Low-temperature foldability	EN 495-5	°C	-	-20
UV + temperature + water exposure	EN 1297	CLASSE	-	PND

*1 Direction: L - longitudinal // T - transversal

ADDITIONAL NORMATIVE INFORMATION:

Visible defects	EN 1850	-	-	PASS
Length	EN 1848-2	m	+5%	20 / 30
Width		m	-0,5% // +1%	1 / 1,5 / 2
Mass per unit area	EN 1849-2	g/m ²	-10 // +10	340
Thickness		mm	-0,03 // +0,06	0,65

Straightness	IN 1848-2	mm	-	≤10
Flatness		mm	-	≤10
Dimensional stability	IN 1107-2	%	-	≤2
Water vapour transmission properties:				
Water vapor resistance factor (μ)	IN 1931 (B)	-	-30% // +30%	8.039
Vapor diffusion (sd value)	IN 1931 (B)	m	-30% // +30%	3,2
Vapor diffusion resistance (Z)	-	MN·s/g	-	16

Vapor barrier in compliance with the requirement of CTE - DB HS 1 (Z > 10 MN·s/g)

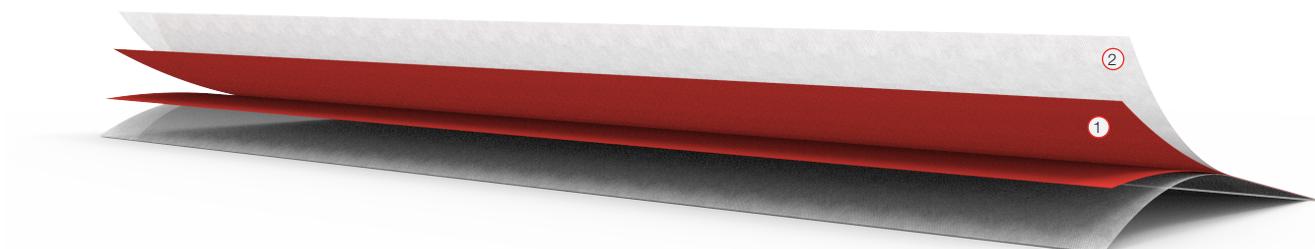
OTHER CHARACTERISTICS:

CHARACTERISTICS	METHOD	UNIT	TOLERANCE	VALUE
Root penetration resistance	UNE-CEN/TS 14416			PASS
Tear resistance: L // T	IN 12310-2	N	-	≥75 // ≥100
Indoor air emissions: Class A+ label in compliance with French regulation (Arrêté du 19 avril 2011)				
Total VOC emissions	EN ISO 16000-3 EN ISO 16000-6	μg/m³	< 1000	<75
Usage temperatures	-	°C	-	-20 a +80
Adhesion of C2 cement glue to the membrane after 28 days (14 days under laboratory conditions + 14 days at 70°C)				
Tensile strength	EN 1348	N/mm²	-	≥0,7
Shear strength	EN 1324	N/mm²	-	≥1
Water resistance of overlap by welding	-	-	-	WATERPROOF
Crack bridging	ANSI A118.12	mm	-	≤ 3

This product does not contain hazardous substances.

COMPOSITION:

Multilayer structure formed by: non-woven / double film sheet / non-woven	
Composition of the inner film *1	PP 100 %
Composition of the outer non-woven *2	50% Polyester / 50% Polypropylene



CONTROLS PERFORMED DURING PRODUCTION AND/OR ON THE FINISHED PRODUCT:

Conformity verification system 2+ according to **REGULATION (EU) No 305/2011**.

Verification in each production batch:

- » Mass per unit of surface, length, and width
- » Visible defects.
- » Water penetration resistance.
- » Tensile properties: rupture, elongation, and tear resistance.
- » Geotextile adhesion.

INFORMATION RELATED TO USE, HANDLING, AND TRANSPORT:

During transportation, storage, and installation, it should be handled carefully and avoid exposure to sharp or cutting elements that may cause perforations, cuts, or tears.

It is necessary to protect the THERMO SEAL waterproofing membrane from exposure to UVA rays. Ensure proper installation under the coating when installed outdoors.

Before starting the installation of THERMO SEAL, verify that the substrate meets the necessary conditions. The surface should be dry, firm, smooth, clean, and have the proper slope.

It is necessary to protect the membrane from any traffic on it until the final protection is applied.

FOR GLUING THERMO SEAL TO THE SUBSTRATE: For traditional construction substrates, use C2 type cement adhesive. For plaster, old ceramics, and others, verify that the chosen adhesive is suitable for the substrate. Apply following the manufacturer's instructions.

FOR GLUING COVERINGS TO THERMO SEAL: For ceramic or similar flooring, use C2 type cement adhesive. For wood, textiles, and others, use an adhesive suitable for the covering and appropriate for humidity. Apply following the manufacturer's instructions. You can find more detailed information in the **INSTALLATION GUIDE FOR ROOFS**.

FOR GLUING OVERLAP JOINTS: THERMO SEAL allows for the creation of joints by hot-air welding. Perform the necessary tests to adjust the conditions according to the equipment used.

It is also possible to create overlaps with polymer cement EASEAL or W-S MASTIC type adhesive sealant.

The data provided is for informational purposes and may be changed without prior notice. Necessary tests should be conducted to ensure the suitability of the product for the intended use if it differs from what is described.

