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VYTPO-H SA

Self-Adhesive Homogeneous TPO Waterproofing Membrane

DESCRIPTION

VYTPO-H SA is a factory-produced self-adhesive homogeneous thermoplastic polyolefin (TPO) waterproofing membrane. It is designed to provide reliable weather protection, high flexibility and durable bonding while reducing installation time and eliminating open-flame application.

BENEFITS

- Fast, cold-applied installation with no torch required.
- High elongation and low-temperature flexibility for movement and complex detailing.
- UV and artificial-weathering resistance for exposed waterproofing applications when used as designed.
- Strong initial and retained peel adhesion, including after water immersion and heat aging.
- TPO surface and designated overlap zones are suitable for controlled hot-air welding.

APPLICATIONS

- Flat and low-slope exposed roofs, including compatible refurbishment and overlay systems.
- Concrete, cementitious screeds, approved cover boards, metal and wood-based substrates, subject to project-specific preparation and primer requirements.
- Upstands, perimeter zones and compatible TPO waterproofing details.

DIMENSIONS & PACKAGING

Parameter	Value			
Total thickness	1.2 mm	1.5 mm	1.8 mm	2.0 mm
Thickness of TPO sheet	0.8 mm	1.1mm	1.2 mm	1.4 mm
Width	2.0 m			
Length	20 m			
Color	White			
Packaging	Rolls			

TECHNICAL DATA

Property	Value				Test Method
Thickness, mm	1.2	1.5	1.8	2.0	EN 1849-2
Tensile strength (N/mm^2)	≥ 12	≥ 12	≥ 12	≥ 12	EN 12311-2
Elongation to break (%)	≥ 500	≥ 500	≥ 500	≥ 500	EN 12311-2
Tear resistance (N/mm)	≥ 60	≥ 60	≥ 60	≥ 60	EN ISO 34-1 EN ASTM D624 Angle test
Resistance to impact (mm)	≥ 450	≥ 600	≥ 700	≥ 800	EN 12691
Cold bending (°C)	≤ - 40	≤ - 40	≤ - 40	≤ - 40	EN 495-5

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Property	Value				Test Method
Hydrostatic pressure resistance (6 hours at 0,5 Mpa)	water-proof	water-proof	water-proof	water-proof	EN 1928 met. B
Resistance to artificial weathering (UV)	no surface cracking	no surface cracking	no surface cracking	no surface cracking	EN 1297
Resistance to static punching (kg)	≥ 20	≥ 20	≥ 20	≥ 20	EN 12730
Peel strength, overlap (N/mm)	≥ 1.0 N/mm				EN 12316-2
Peel strength, membrane to aluminum plate (N/mm)	≥ 1.5 N/mm				EN ISO 8510-2
Peel strength after water immersion, 23^{0}C, 7d (N/mm)	≥ 1.5 N/mm				EN ISO 9142 + EN ISO 8510-2
Peel strength after heat aging, 70^{0}C, 7d (N/mm)	≥ 1.5 N/mm				EN 1296 + EN ISO 8510-2
Heat resistance of self-adhesive surface, 70^{0}C, 2h	No flow or displacement				EN 1110 modified
Holding power	≥ 15 min				EN ISO 29863

INSTALLATION

1. Substrate preparation. Provide a sound, smooth, clean and dry surface free of dust, oil, standing water, loose material and sharp projections.
2. Compatibility and primer. Confirm the substrate and primer by project specification or trial. Use an approved separation layer over incompatible materials.
3. Positioning. Pre-position and align each roll before removing the release liner; allow the membrane to relax as site conditions require.
4. Bonding. Remove the liner progressively, avoid wrinkles and trapped air, then press from the center outward and consolidate with a suitable roller.
5. Seams and details. Keep adhesive residue out of the weld zone. Hot-air weld designated overlaps and compatible accessories using settings confirmed by a site trial.
6. Inspection. After cooling, probe welded seams, repair discontinuities and confirm full adhesion and secure terminations.
7. Weather conditions. Install in suitable dry conditions. Low temperatures may require conditioned storage, additional rolling or an approved primer.

Storage & Transport

• Store rolls in original packaging in a dry, covered location; protect from sunlight, moisture, temperature extremes and damage.
• Secure rolls during transport and handling; do not drop, crush or deform the roll edges.
• Use stock in batch order and refer to the product label or order documentation for the applicable shelf-life declaration.

Limitations & Safety

• Do not apply to wet, frozen, contaminated, unstable or incompatible substrates.
• Do not place in direct contact with bitumen, tar, oils, solvents or plasticized membranes unless an approved separation layer is used.
• Suitability for permanent immersion, chemical exposure, unusual substrates or high-temperature service must be confirmed in writing for the specific project.
• Welding temperatures and speeds are equipment- and weather-dependent and must be established by a site trial.
• Installation must follow approved project details and be carried out by trained personnel.

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Health & Safety

Observe the current Safety Data Sheet and local site requirements. Use appropriate personal protective equipment. Hot-air welding tools and heated surfaces can cause burns; provide safe electrical connections and adequate ventilation during installation.

Technical Notice

The information in this data sheet is based on current knowledge and laboratory or quality-control data available at the date of issue. Values may vary within normal manufacturing tolerances. The user is responsible for confirming substrate compatibility, system design, installation conditions and suitability for the intended use. This document does not replace project specifications, method statements, test certificates or statutory requirements. VYKOL reserves the right to update product information without notice.