cemseal®
LOCAL EXPERTISE, GLOBAL STANDARD

CEMSEAL TPO

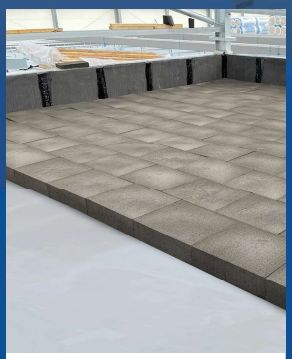
TPO Preformed Waterproofing Membrane



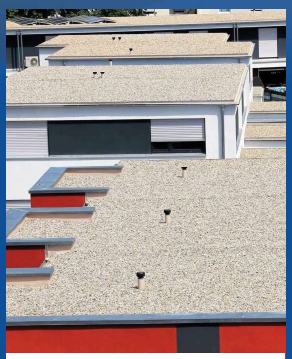
Areas of Application



Flat Roofs



Inverted Roofs



Ballasted Flat Roofs



Green Roofs & Planters



Mechanically Fastened Roofs

CEMSEAL TPO

TPO Preformed Waterproofing Membrane

Description

CEMSEAL TPO is a single-ply thermoplastic polyolefin membrane. The membrane has excellent tensile and elongation properties, hail resistance and excellent dimensional stability. Designed for use in all global climatic conditions.

Product Features

- Consistent Thickness
- Water Vapour Permeable
- Self-Cleaning
- Root and Rhizome Resistant
- Excellent Durability
- Hot-Air Weldable Without Any Open Flame

Technical Specification

Type	*TPO-H & TPO-V*	*TPO-P*
Roll Size	*2 m (W) × 20 m (L) (custom sizes available)*	*2 m (W) × 20 m (L) (custom sizes available)*
Appearance	*Grey / White (other colours on request)*	*Grey / White (other colours on request)*
Thickness	*1.2 mm / 1.5 mm / 2.0 mm*	*1.2 mm / 1.5 mm / 2.0 mm*
Tensile Strength	*≥ 19 N/mm² (long.) ; ≥ 18 N/mm² (trans.)*	*≥ 1400 N/50mm (long.) ; ≥ 1400 N/50mm (trans.)*
Elongation at Break	*≥ 800% (long.) ; ≥ 800% (trans.)*	*≥ 200% (long.) ; ≥ 100% (trans.)*
Water Vapour Transmission	*≥ 0.03 g/m²/hr*	*≥ 0.03 g/m²/hr*
Watertightness	*No leakage*	*No leakage*
Shear Resistance of Joint	*≥ 800 N/50mm*	*≥ 800 N/50mm*
Peel Resistance of Joint	*≥ 200 N/50mm*	*≥ 200 N/50mm*
Resistance to Static Loading	*≥ 20kg*	*≥ 20kg*
Resistance to Impact	*≥ 2000mm*	*≥ 2000mm*
Foldability at Low Temperature	*≤ -25°C*	*≤ -25°C*

Application Method

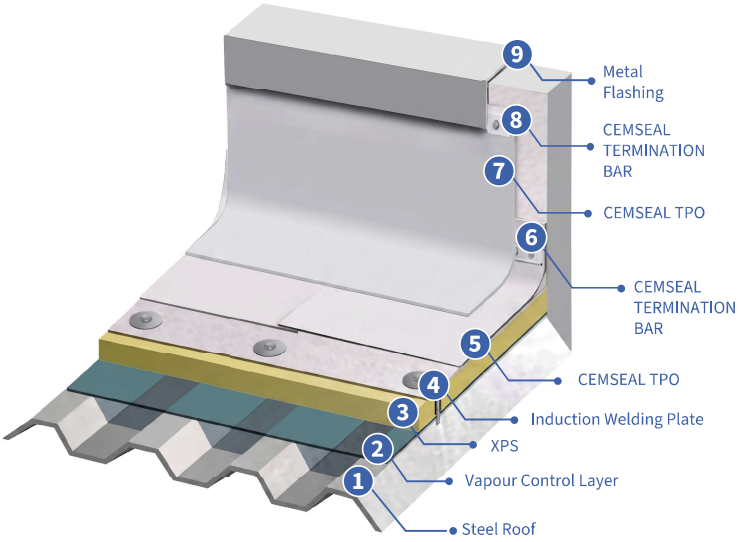
1. Prepare Substrate
Ensure the surface is strong, smooth, clean, and free of contaminants. Repair cracks and damage with suitable repair materials.

2. Align Membrane
Unroll, align, and re-roll carefully before welding. Maintain ≥ 80 mm side and end laps.

3. Lay Membrane
Apply by loose laying, full bonding, or mechanical fastening. Remove air pockets with a roller or broom.

4. Weld Seams
Use hot-air welding for overlaps. Test seams for integrity and re-weld if necessary.

5. Finish
Seal terminations with proper detailing. Membrane is then ready for finishing layers or protection.



cemseal®
LOCAL EXPERTISE, GLOBAL STANDARD

Malaysia
+6016-771 2590
info@cemseal.com.my

Singapore
+65-6011 5833
info@cemseal.com

Indonesia
+62811-104 2590
Indonesia@cemseal.com