



INTRODUCTION

SABIT ELASTO SEP is the ultimate waterproofing membrane. The multilayered design consists of non-woven polyester core, impregnated and coated on both sides with SBS (Styrene-Butadiene-Styrene) modified bitumen and finally finished with heat fusible polyethylene film on both surfaces. SABIT ELASTO SEP modified bitumen waterproofing membrane are produced from a blend of special grade

Description

SABIT PLASTO-SPP is the ultimate waterproofing membrane. The multilayered design consists of non-woven polyester core, impregnated and coated on both sides with APP (Atactic Polypropylene Polymer) modified bitumen and finally finished with heat fusible polyethylene film on both surfaces. SABIT PLASTO-SPP modified bituminous waterproofing membranes are produced from a blend of special grade thermoplastic polymers and bitumen. This combination gives the proven waterproofing qualities of bitumen plasticity, excellent resistance to heat, ageing & weathering, and ease of application by torch welding. The polyester core gives the membrane high tensile strength, elongation, and superior lap joint strength.

SABIT PLASTO-SPP is available in two basic finishes:

- Finish with polyethylene surface for covered application SABIT ELASTO SEP
- Granular surfacing for exposed application SABIT ELASTO SEP-G

Features

- Total impermeability for complete waterproofing
- Superior flexibility because of the high content of rubber
- Good performance at broad temperature range
- Compatible with all roofing and building components
- Good bond ability and seam integrity
- Stability at high ambient temperature

Surface Preparation

Clean the surface smoothly and free from moisture, debris, or any substance preventing proper adhesion. Roof must have a minimum slope of 1% (10 mm per meter) evenly and continuously towards the drain. Surface must be primed with SABIT Primer D-41.

Uses

SABIT ELASTO SEP could be widely used in all kinds of waterproof engineering projects, especially for:

- All kinds of building roof engineering projects, planting building surfaces, roof parking lots and converted building surfaces
- All kinds of underground waterproof or damp-proof engineering projects
- Water spraying pools, swimming pools, penstocks, water pools and similar works
- Recommended for areas with cold climate

Limitation

SABIT ELASTO SEP is not designed to be used on permanently exposed surfaces. Use SABIT ELASTO SEP-G for such purposes or cover SABIT ELASTO SEP with insulation or ballast. Neither SABIT ELASTO SEP nor SABIT ELASTO SEP-G are oil and solvent resistant.

Approximate Coverage Rate

Flat areas: 1.15 m² per 1 m² area (10 cm side overlap, 15 cm end laps) \Base flashing: 0.40 m² / linear meter (100 × 35 cm with 15 cm end laps) Wastage: 3–5%

Membrane Installation

Unroll the membrane ensuring side lap joint is aligned with the low point of the roof. Re-roll one end to the center and apply, then proceed with the opposite half. Continue up the slope with further rolls. Propane torch head should be positioned 150–300 mm from the surface depending on weather conditions. Maximum heat is at the blue end of the flame. Torch should be moved continuously in a rectangular pattern. Slow movement over joints to soften bitumen and fill voids. Ensure a small amount of molten bitumen is always present in front of the roll during heat welding.

PACKING, STORAGE & HANDLING

Product	Thickness	Rolls per Pallet	Storage
SEP / SEP-G	4 mm	23	Vertically stored on pallets
SEP / SEP-G	5 mm	16	Store under shaded warehouse
			Rolls in pallet should not be stored over each other

TECHNICAL INFORMATION

PROPERTIES	TYPICAL RESULT	TOLERANCE	TEST METHOD
Roll size, m	10	5%	ASTM D 5147
Thickness, mm	4 or 5	10%	ASTM D 5147
Unit weight (plain), kg/m ²	4 or 5	20%	ASTM D 5147
Carrier polyester, g/m ²	180	20%	UEATC, M.O.A. T.30
Softening point (°C)	>110	15%	ASTM D 36
Penetration at 25°C, dmm	30-40		ASTM D5
Cold flexibility, °C	-8 to -14		ASTM D 5147
Tensile Strength @23±2°C (N/5cm) – Longitudinal	800		ASTM D 5147
Tensile Strength @23±2°C (N/5cm) – Transverse	600		ASTM D 5147
Tensile Strength @23±2°C (kN/m) – Longitudinal	16		ASTM D 146
Tensile Strength @23±2°C (kN/m) – Transverse	12		ASTM D 5147
Elongation @23±2°C (%) – Longitudinal	45-50		ASTM D 146
Elongation @23±2°C (%) – Transverse	45-50		ASTM D 5147
Tear strength (N) – Longitudinal	400		ASTM D 4073
Tear strength (N) – Transverse	300		ASTM D 5147
Lap joint strength (N) – Longitudinal	800		ASTM D 5147

Lap joint strength (N) – Transverse	600		ASTM D154
Heat resistance at 90°C	No flow		DIN 52123
Puncture resistance (N)	800		ASTM D 5147
Resistance of water pressure	No leakage		ASTM D 6222
Water absorption (%)	<0.15		ASTM D 6222
Compound stability (°C), minimum	1		ASTM D 6222
Moisture content (%), maximum	1		EN 1848-1
Low temperature unrolling (°C), maximum	5		EN 1849-1