

PRODUCT DATA BULLETIN II

HEAVY DUTY POLYPPLY

DESCRIPTION AND PURPOSE:

SWEPCO Heavy Duty PolyPly is a premium quality, state-of-the-art roof membrane used for waterproofing in both new roof construction and re-roofing. It consists of a heavy polyester reinforcing mat sandwiched between two layers of modified asphalt. The membrane is adhered to the roof with SWEPCO Adhesive #9, a cold-applied liquid asphalt roofing glue, and then top-surfaced with one of SWEPCO's cold-process roof coatings.

OUTSTANDING FEATURES:

SUPERIOR FLEXIBILITY

The select asphalt used in Heavy Duty PolyPly is modified with APP (atactic polypropylene) to improve the asphalt's natural flexibility. The elasticity of the asphalt is further enhanced by the polyester reinforcing mat, which has excellent "stretch" properties. This combination of modified asphalt and polyester produces a membrane that has more than enough flexibility to withstand normal roof movement.

STRONG AND DURABLE

The polyester reinforcement and high quality modified asphalt create a membrane of lasting durability. The polyester provides excellent resistance to cracking, tearing and puncturing and the modified asphalt assures many years of first class waterproofing protection. Heavy Duty PolyPly is fortified with ZHD-7, a special SWEPCO additive formulated to retard deterioration from ultraviolet radiation.

SAFE, EASY INSTALLATION

Heavy Duty PolyPly is cold-applied. Hazardous torches, heating kettles and the smoke and pollution that go with them are avoided. Both the SWEPCO Adhesive #9 used to bond the membrane and the SWEPCO Coatings used for top-surfacing are applied with simple roofing tools (brushes and squeegees) for easy application.



GENERAL DATA:

TYPICAL PHYSICAL PROPERTIES

Unit Weight, lb/100 sq. ft. (kg/m ²)	33 (1.6)
Roll Weight, lb (kg)	71 (32)
Roll Size, sq. ft. (m ²)	215.2 (20)
Roll Dimensions	
Width, in. (m)	39.38 (1)
Length, ft. (m)	65.5 (20)

TYPICAL PERFORMANCE PROPERTIES

Tensile Strength, lb/in (kg/2.54 cm)	75 (34)
Elongation, % minimum	50
Pliability, 1 in. mandrel, @77°F (25°C)	No Cracking
Pliability, 1 in. mandrel, @32°F (0°C)	No Cracking
Water Penetration, 24 hour @77°F (25°C)	None
Heat Resistance @176°F (80°C)	2 hours
Volatile loss, %	0
Sagging	None
Blistering	None

TYPICAL CHEMICAL PROPERTIES

Polyester Content, gram/m ²	120
Saturant Soluble in Trichloroethylene, % wt	99
Coating Soluble in Trichloroethylene, % wt	99
Saturant/Coating	Asphalt
Modifier	Atactic Polypropylene

APPLICATION INFORMATION:

SURFACE PREPARATION: The roof deck shall be prepared as prescribed in SWEPCO's "Built-Up Roof System General Specifications" prior to the installation of SWEPCO Heavy Duty PolyPly.

APPLICATION PROCEDURE: SWEPCO Heavy Duty PolyPly is used in a number of SWEPCO Built-Up Roof Systems. In most applications, the membrane is adhered to the roof with SWEPCO Adhesive #9 (some roof decks require nailing). After installation, Heavy Duty PolyPly is top-surfaced with one of SWEPCO's cold-applied roof coatings. Consult the appropriate SWEPCO Built-Up Roof System specification or application guide for complete installation instructions.

