



# ULTRATHERM

## Waterproofing / Roofing Membrane

(DIRECT FIRED FORMULA)

### PRODUCT DATA INFORMATION

#### DESCRIPTION:

Ultratherm is composed of specially selected compatible bitumen, synthetic rubber polymers and inert fillers. The technically advanced blending of these materials results in a product that displays excellent properties for roofing and waterproofing systems. The toughness, the impact resistance, extensibility, the elastic properties, and the thermal shock resistance are characteristics of Ultratherm's high performance.

#### USES:

Ultratherm is used as the inter-ply mopping asphalt in conventional built-up roofing (BUR) systems instead of oxidized bitumen. It is also used to waterproof concrete deck structures above and below grade and makes an exceptional flood coat to add many years of service life to BUR. Ultratherm can be heated in a standard asphalt roofing kettle or in a double shell indirect fired melter equipped with a mechanically operated agitator.

#### APPLICATION:

The following application procedure is only a guideline and does not limit the used of Ultratherm. An Ultraseal representative should be consulted for specific project requirements.

PREPARATION OF MEMBRANE (BUR): Heat and melt Ultratherm in a melter equipped with a circulating pump or a mechanized agitator. Keep material circulated to avoid localized overheating. Heat material to application temperature of 180-205°C (356-400° F).

#### APPLICATION OF MEMBRANE:

- (i) Install a minimum of three (3) plies of Type IV glass ply in shingle fashion.
- (ii) Embed each ply of fiberglass roofing felt in a continuous uniform mopping of hot Ultratherm.
- (iii) Interply mopping rate of Ultratherm shall be a minimum of 1.25 kg/m<sup>2</sup> (25 lb./100 sq. ft.).
- (iv) Broom each ply to remove entrapped air and fish-mouths.
- (v) Allow each ply to cool before applying another, and avoid walking on freshly laid plies.
- (vi) End laps shall be a minimum of 150 mm (6") and staggered a minimum of 300 mm (12").
- (vii) Evenly distribute a flood coat of Ultratherm at a rate of 2.2 kg/m<sup>2</sup> to 2.7 kg/m<sup>2</sup> (45-55 lb./100 sq. ft) and cover immediately with clean dry roof gravel meeting ASTM D-1863-63.
- (viii) Flashings on all curbs, cants and protrusions shall be constructed in accordance with CRCA (Canadian Roofing Contractors Association) Specifications for BUR applications.

#### PHYSICAL PROPERTIES:

Property	Test Method	Typical Results
Flash Point °C	ASTM-D-92-67	265°C (509°F)
Penetration @ 25°C (77°F)	ASTM-D-5329	35-45
Softening Point °C (°F)	ASTM-D-36-76	80°C (176°F) min.
Flow @ 60°C (140° F)	ASTM-D-5329	1.0 max.
Brookfield Viscosity @ 160°C (320° F)		1200 cps max.
Elongation @ 25°C (77° F)	ASTM-2523-78	800% MIN.
Flexibility	CGSB37-50m-89	-20°C (-4°F)
Recommended Application Temperature		180-205° C (356-400°F).

*The physical and chemical properties are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations.*

**Disclaimer** Ultraseal Waterproofing and Sealant Technologies Inc. believes that the information contained herein is an accurate description of and uses of the product, but it is the buyers and users responsibility to determine and thoroughly confirm fitness and compatibility for use and to determine performance, efficacy, and safety.



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