



Between the World
and The Weather
Since 1928

Ram-Tough “Super Type” ST 300 Polymer Modified Roofing Bitumen

PRODUCT DESCRIPTION

Barrett “Super Type” ST 300 roofing bitumen is a polymer-modified mopping grade asphalt which complies with traditionally accepted industry standards. Due to growing petro-chemical demands and extractions from crude petroleum oil, the quality of commodity grade roofing asphalt has been steadily declining. Polymerization not only reverses this decline, it improves the product beyond old-style, high quality roofing asphalt.

Unlike traditional asphalt, ST 300 is manufactured using a heat and weathering resistant SEBS polymer in conjunction with an asphalt base specifically selected for its compatibility with the polymer system. The formulation and high speed sheer manufacturing process yields a material with improved adhesion, elongation, elasticity, low temperature flexibility, and toughness when compared to conventional oxidized roofing asphalt. Polymer modification allows a lower softening point material to be installed on higher slopes than regular oxidized asphalt.

The amount of polymer content is an important part of selecting the right roofing system for a project. Each building has its own unique conditions to consider along with the building owner’s needs and objectives. ST 300 offers 300% elongation and is best suited for moderately severe exposures and when long term performance and economy are important.

Polymer content also has a direct effect on the products cost. ST 300 offers an economical price for a wider range of applications where performance and longevity are important. Use of Barrett’s polymer modified roofing asphalt in combination with appropriate modified bitumen, polyester or fiberglass ply sheets and cap sheets provide roofing systems with superior fatigue cracking resistance, tensile strength, low temperature flexibility and puncture resistance.

FEATURES

- Enhanced physical properties through polymer modification
- Consistent premium quality
- Superior elongation and cold flexibility properties
- Superior weathering characteristics

BENEFITS

- Quality assurance with every batch
- Out performs regular roofing asphalt
- Polymer modification reduces thermal stress damage
- Superior traffic, abrasion and puncture resistance

TYPICAL PHYSICAL PROPERTIES

| PROPERTY | TEST METHOD | ST-300 |
|---------------------------------|-------------|---------|
| Softening Point (°F) | ASTM D-36 | 190-210 |
| Flash Point (°F) | ASTM D-92 | 545 |
| Penetration, Units @ 77°F | ASTM D-5 | 24 |
| Elongation (%) | ASTM D-412 | 300 |
| Flexibility 1/2" Mandrel (75°F) | ASTM D-3111 | Pass |

Meets or exceeds the requirements of ASTM D-312

APPLICATION RATES

Ram-Tough ST300 can be applied by mop or mechanical spreader. Material must be sufficiently hot to obtain the specified rate of application without exceeding the maximum recommended heating temperature. In cold weather conditions, special provisions are to be taken in order to meet the recommended Point of Application temperature without over heating the material in the kettle.

Regardless of the application method, the bitumen is to be applied in a continuous film, without voids. Ply sheets are to be applied and broomed into place while the bitumen is still hot and fluid.

HEATING GUIDELINES

Ram-Tough ST300 is heated in a conventional roofing kettle.

Maximum Kettle Temperature

Summer Conditions - 500°F

Winter Conditions - 525°F

Point of Application Temperature (EVT)

The recommended Equisivous Temperature (EVT) is printed on each package.

SLOPE LIMITATIONS

Ram-Tough ST 300 is recommended for the construction of built-up roof membranes with inclines of up to 1 inch per foot without backnailing.

PACKAGING

100 lbs. fiber cartons
18 cartons per pallet
Pallet weight 1800 lbs. (approx)
22 pallets per truckload

APPLICATION PRECAUTIONS

- For exterior use only
 - Do not apply to wet or damp surfaces
 - Follow recommended heating and application temperatures
 - Provide positive drainage of membrane
 - Do not smoke or expose to open flames during application
 - To reduce the potential for odors entering the building, cover fresh air intakes, close windows, doors and other openings which would allow odors to enter during application. Interior negative air pressure can impact the potential for odor entering the building.
 - Not for use with potable water collection systems.
- READ MATERIAL SAFETY DATA SHEET BEFORE USING**
• FOR PROFESSIONAL ROOFING CONTRACTOR USE ONLY.

PRODUCT SAFETY INFORMATION

Ram-Tough ST 300 roofing bitumen offers no unusual health or safety risks for a product of this nature. As with any roofing process, proper ventilation, clothing and eye protection is important.

For specific information, contact the Barrett Company for a current Material Safety Data Sheet on this product.

The user should not assume that all safety measures are indicated or that other measures may not be required.

Note

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