



Between the World  
and The Weather  
Since 1928

# Ram-Tough “Super Type” ST 150 Polymer Modified Roofing Bitumen

## PRODUCT DESCRIPTION

Barrett “Super Type” ST 150 roofing bitumen is a polymer-modified mopping grade asphalt which complies with traditionally accepted industry standards. Due to growing petrochemical 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 150 is manufactured using a heat and weathering resistant SEBS polymer in conjunction with an asphalt base specifically selected for its compatibility with the SEBS polymer system. The formulation and high speed shear 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 150 exhibits 150% elongation and cold temperature properties which are superior to regular oxidized asphalt. ST 150 offers the advanced technology of polymer modification at the lowest possible cost.

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 150
Softening Point (°F)	ASTM D-36	190-210
Flash Point (°F)	ASTM D-92	545
Penetration, Units @ 77°F	ASTM D-5	26
Elongation (%)	ASTM D-412	150
Flexibility 1/2” Mandrel (75°F)	ASTM D-3111	Pass

Meets or exceeds the requirements of ASTM D-312

## APPLICATION RATES

Ram-Tough ST 150 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 (EVT) Point of Application temperature without over heating the material in the kettle.

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

## HEATING GUIDELINES

Ram-Tough ST 150 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 Equiviscous Temperature (EVT) is printed on each package.

## SLOPE LIMITATIONS

Ram-Tough ST 150 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 150 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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