

# RamTough 250

Hot Rubberized Asphalt Waterproof Membrane



## Description

A thermoplastic material, RamTough 250 Bitumen is a 100% solid polymer modified rubberized bitumen which forms a completely monolithic, waterproof barrier without seams or joints.

## Uses

Ram Tough 250 is designed to be installed in new and restoration applications such as plaza deck waterproofing systems, protected membrane roofs (IRMA®)\*, Green Roof Roofscapes®, Vertical waterproofing applications, parking decks, bridges, water treatment plants and between slab waterproofing membrane systems.

## Coverage

1st Coat = 90 mils (0.627 lbs/sq ft)  
2nd Coat = 125 mils (0.872 lbs/sq ft)  
Total = 215 mils (1.5 lbs/sq ft)

## Heating Equipment & Guidelines

A double-jacketed, hot-air or oil bath melter with mechanical agitation, specifically designed for rubberized asphalt materials is required. Maintain oil-bath at approximately 500°F and material temperature at 375°F to 400°F, with constant agitation.

Do not overheat RamTough 250. Overheating will cause RamTough 250 to cross-link and line the walls of the melter, adversely affecting the equipment and the material performance properties.

It is also important not to hold RamTough 250 material at elevated temperatures for prolonged periods of time as this will also cause some polymer degradation. A target of not exceeding four hours at 400°F under heat should be adhered to.

## Limitations

RamTough 250 should not be left exposed or subjected to unprotected construction traffic. Do not install this product over lightweight structural concrete of less than 3000 PSI (6.89 kN/m<sup>2</sup>) without prior written acceptance from Barrett. Lightweight insulating concrete and insulation boards are not acceptable substrates.



### Approvals

Underwriters  
Laboratories

New York City (MEA)



### Packaging

30 lbs./carton  
75 cartons per pallet  
2,250 lbs./pallet



## Properties

Description	Test Method	Test Requirement	Test Results	Comments
Color	NA	NONE	NA	Black
Softening Point	ASTM-D-36		83°C (181°)	Pass
Solids Content	CGSB-37-GP-50	100%	100%	Pass
Ratio of Toughness to Peak Load	CGSB-37-GP-50	Min. 0.040	0.059	Pass
Low Temperature Crack Bridging Capacity	CGSB-37-GP-50	No cracking No Adhesion Loss No Splitting	No cracking No Adhesion Loss No Splitting	Pass
Toughness, J	CGSB-37-GP-50	Min. 5.5	11.7	Pass
Penetration 0.1 mm	CGSB-37-GP-50	Max 110 @ 25°C (77°F) Max 200 @ 50°C (122°F)	80 @ 25°C 155 @ 50°C	Pass
Flow, mm	CGSB-37-GP-50	Max 3 @ 60°C (140°F)	0.50 @ 60°C	Pass
Flash Point	CGSB-37-GP-50 ASTM-D-92	Min. 260°C (500°F)	327°C (620°F)	Pass
Water Resistance 50°C (122°F) for 4 days	CGSB-37-GP-50 ASTM-D-92	No delamination No blistering No emulsification No deterioration No pinholes	No delamination No blistering No emulsification No deterioration No pinholes	Pass
Adhesion	CGSB-37-GP-50	Min. 1	1.2	Pass
Viscosity	CGSB-37-GP-50	Min. 2, Max 15	4 Sec.	Pass
Water Vapor Permeability	CGSB-37-GP-50	Max 1.7 0.35 g max gain	0.18 ng/Pa. m <sup>2</sup> s	Pass
Water Absorption	CGSB-37-GP-50	Max 0.18 0.18 g max loss	0.22 g gain	Pass
Low Temperature Flexibility & Adhesion	CGSB-37-GP-50	No cracking No delamination No adhesion loss	No cracking No delamination No adhesion loss	Pass
Heat Stability	CGSB-37-GP-50	Aged samples No change in viscosity, penetration flow or low temp	Aged samples No change in viscosity, penetration flow or low temp	Pass

LIMITED WARRANTY: Barrett warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Barrett makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to The Barrett Company, LLC. Barrett to replace or to refund the purchase price of the quantity of Barrett proven to be defective, and Barrett shall not be liable for any loss or damage.

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