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BuyLine 6369



TRUMBULL®

ASPHALT FOR BUILT-UP ROOFING



2008



Trumbull®

WHY DOES OWENS CORNING RECOMMEND HOT BUILT-UP ROOFING?

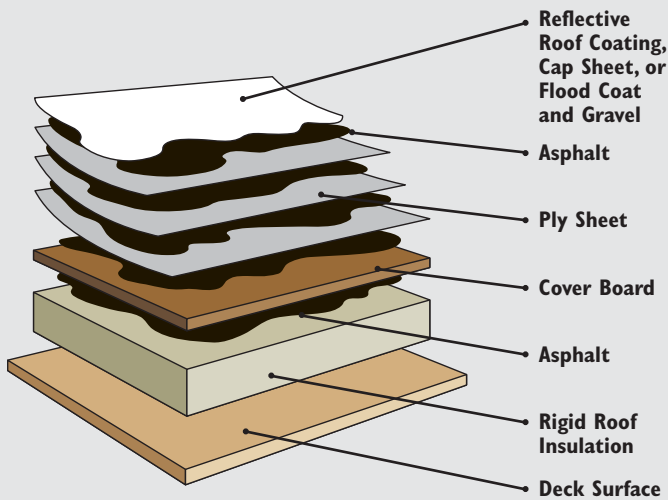
When you design a structure, you expect a roof to keep the interior spaces warm and dry. You expect it to resist exposure to the elements—even severe weather. And you expect it to last for 20 years. That's why Owens Corning recommends hot Built-Up Roofing (BUR) using Trumbull asphalt for commercial roof applications.

A Built-Up Roof is a low-slope roof consisting of a base deck of metal, plywood or concrete, followed by a layer of rigid roof insulation, and covered with alternating layers of roofing felt and hot-mopped asphalt. This outstanding combination of high-tensile-strength glass plies and water-resistant asphalt provides a strong, long-lasting barrier of protection for your roof.

THE BENEFITS OF BUILT-UP ROOFING

When it comes to low-sloped roofs, Built-Up Roofing is by far the best choice.

- Redundant layers means unmatched leak protection
- Fully adhered for improved performance in extreme weather events
- Durability and proven long life for lower life-cycle cost



The fact is, Built-Up Roofs offer several major benefits.

LONGER SYSTEM LIFE

Each ply of a Built-Up Roofing system contains a mat of glass fiber reinforcement—more reinforcement than is found in many single-ply systems. This greater reinforcement provides longer-lasting system life.

LIMITED ROOF MOVEMENT

All roofs expand and contract. Single-ply roofs respond with elongation. A Built-Up Roof, however, limits movement with high tensile strength so the potential for fracturing is more or less eliminated.

SUPERIOR WATER RESISTANCE

Multiple layers of reinforcement offer multiple opportunities to help prevent leaks. Single-ply membranes only offer one chance at preventing a leak.

LESS OPPORTUNITY FOR LEAKS

On a hot Built-Up Roof, the multiple plies are fused together using hot-mopped asphalt to create a monolithic barrier. Traditional single-ply systems may require ballast or fasteners, creating stress points and additional opportunities for moisture leakage.

BUILT-UP ROOFING VS. TRADITIONAL SINGLE-PLY



BUR

- Multiple layers of hot-applied, water-resistant asphalt and glass fiber reinforcement to help prevent leaks
- Difficult to puncture
- Sealed over entire roof area without fasteners
- Limits movement with high tensile strength
- Easily repaired
- Holds up better in high traffic areas

SINGLE-PLY

- Single layer to prevent leaks, much of which is not reinforced
- No asphalt (EPDM, PVC, TPO)
- Easily torn or penetrated
- Often laid loose, requiring fasteners
- May allow movement, resulting in elongation
- Difficult to repair
- Not designed for high traffic areas

THE OWENS CORNING TRUMBULL PRODUCT LINE



Standard

PermaMop®



PERMAMOP® MODIFIED ROOFING ASPHALT

Low-fuming PermaMop® modified roofing asphalt* is specially engineered to provide exceptional durability. This makes it an ideal choice for projects in extreme weather areas—whether it's heat, cold or moisture.

PermaMop asphalt is also uniquely formulated so that it can be applied to any roof type, regardless of the slope. It has the softening point of a Type IV asphalt but with a lower EquiViscous Temperature (EVT) than any standard Type IV. It stays where it's mopped, even on steep-sloped roofing in intense heat.



TRULO® LOW-FUMING ASPHALT

Our patented TruLo® Type I-IV packaged asphalts feature a technologically advanced polymer additive. When heated, the polymer floats to the surface and creates a skim layer on the kettle that traps the fumes and odor inside—without affecting the asphalt or disrupting kettle operation.

STANDARD TYPE I-IV ASPHALTS

There's nothing ordinary about Trumbull Type I-IV standard Built-Up Roofing asphalts. They meet or exceed ASTM standards in every category and lead the industry in quality and consistency.

*Low-fuming *PermaMop* asphalt is available in packaged asphalt only.

ADVANCED TECHNOLOGY FROM OWENS CORNING TRUMBULL ASPHALT

The Built-Up Roofing industry is benefiting from the technological advances of Owens Corning Trumbull asphalt.

Gone are the days of asphalt-saturated organic membranes. The vast majority of roofing felts use glass fiber for reinforcement, and new asphalt products help to greatly reduce offensive odors.

ASPHALT DOESN'T HAVE TO BE KNOWN FOR ITS ODOR

Odor is probably the most troubling aspect of working with asphalt. Particularly when you're talking about sensitive jobs such as restaurants, schools or hospitals. That's why every asphalt in the Trumbull line is now available with our exclusive *TruLo* low-fuming technology.

In fact, Trumbull and the National Institute of Occupational Safety and Health (NIOSH) have measured up to 90% fume reduction at the kettle with the family of low-fuming asphalts from Trumbull.

EXCEEDING INDUSTRY STANDARDS

At Trumbull, we've been manufacturing roofing asphalt for over 80 years. We double-check our products for consistent quality.

Our products meet or exceed the ASTM standards in every category. We exceed ASTM minimum softening points to minimize the risk of slippage due to softening point fallback.

We use high-flash-point raw materials to provide added safety. We also widen the spread between EVT and flash point to support application, adhesion and water resistance.

TRUMBULL ASPHALT FEATURES AND BENEFITS

FEATURES

All Types I-IV meet ASTM D312

Consistent high flash material

Testing in each plant and at Summit, Illinois, laboratory

Knowledgeable technical staff: 20+ years** of experience per person in asphalt and petroleum

Nationwide manufacturing facilities

Typical EVTs shown on cartons
Specific EVTs included on Bills of Lading and each skid

BENEFITS

Products consistently produced to tighter specs at the higher-performance end of the range

Proper temperature range needed to apply product safely at the EVT; flash points typically 50°F to 75°F higher than the 500°F minimum

All Owens Corning Trumbull products are assured to meet ASTM requirements

Batch-to-batch quality consistency
Responsive troubleshooting and problem solving

Convenient, reliable coast-to-coast availability

Helps assure proper processing, adhesion, water resistance and application rate

**On average.

BUILT-UP ROOFING ASPHALT SPECIFICATIONS

Built-Up Roofing asphalt as manufactured by Trumbull will have the following information printed on the carton or shipment information sheet (or bill of lading for bulk asphalt):

- ASTM type asphalt
- Minimum flash point
- Manufacturing plant
- Manufacturing date
- Typical EVT range at 125 cps and 75 cps

This material will comply with ASTM D312 specification for Built-Up Roofing asphalt.

Note:

- Always refer to the system manufacturer's recommended type of asphalt to be used for any given application.
- See ASTM D6510 for selecting which Trumbull asphalt is most appropriate for a given Built-Up Roofing application.

Can't find what you're looking for? Quickly find us online at: WWW.OWENSCORNING.COM

To speak with a Customer Service Representative, call us at: 1-800-GET-PINK™ (1-800-438-7465)

PHYSICAL REQUIREMENTS—ASTM D312

	TYPE I		TYPE II		TYPE III		TYPE IV		TEST Methods
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
Softening Point (°F)	135	151	158	176	185	205	210	225	ASTM D36
Flash Point (°F)	500	—	500	—	500	—	500	—	ASTM D92
Penetration Units:									
@ 32°F	3	—	6	—	6	—	6	—	ASTM D5
@ 77°F	18	60	18	40	15	35	12	25	
@ 115°F	90	180	—	100	—	90	—	75	
Ductility @ 77°F (cm)	10.0	—	3.0	—	2.5	—	1.5	—	ASTM D113
Solubility in Trichloroethylene %	99	—	99	—	99	—	99	—	ASTM D2042

Asphalts shall be homogenous and free of water and shall conform to these physical properties.

PHYSICAL CHARACTERISTICS FOR TRUMBULL ASPHALT

TruLo® available in Types I–IV.

	TYPE I		TYPE II		TYPE III		TYPE IV		PermaMop®	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Softening Point (°F)	140	150	165	175	195	205	215	225	220	230
Penetration Units:										
@ 32°F	15	—	12	—	10	—	8	—	12	—
@ 77°F	20	35	20	30	17	24	15	22	20	30
Flash Point (°F)										
Minimum	525		525		525		525		525	
Typical	575		575		575		575		575	
Typical Ductility @ 77°F (cm)	13		4.0		3.0		2.0		7.0	
Typical Solubility in Trichloroethylene %	99.8		99.8		99.8		99.8		97.5	
Typical Application Temperature for Hand Mopping EVT @ 125 CPS ± 25°F ¹	350		375		430		450		365	
For Machine Spreader EVT @ 75 CPS ± 25°F ¹	370		395		450		475		395	

PermaMop® is FM and UL approved.

¹Trumbull asphalt typically has EVTs in the following range for this product. For specific EVTs for a product from a particular Trumbull plant, check our Web site at www.trumbullasphalt.com or call 1-800-GET-PINK™.



INNOVATIONS FOR LIVING™

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