

PermaMop® Asphalt with JM Built-Up Roofing Systems



Wide range of code approvals

In many areas code approvals are a key component in roofing specifications. That's why JM has a wide range of BUR system approvals using PermaMop asphalt. It is versatile, and can be used in place of standard Type II, III, and IV asphalts in existing JM BUR specifications.

JM Peak Advantage™ Guarantee with PermaMop asphalt

JM offers 10-, 15-, and 20-year No Dollar Limit (NDL) guarantees for specified PermaMop asphalt systems to include roof areas with negligible slope or intermittent areas of ponding water.



Some roofs have areas without positive drainage or slope, especially in older constructions. When installing a JM BUR roofing system with PermaMop asphalt, a ponding water rider will cover roofs with negligible slope [no less than 1/8" in 12" (10 mm/m) slope] and/or intermittent areas of ponding water. Johns Manville defines intermittent areas of

ponding water as areas greater than one square [100 sq. ft (9.3 sq. meters)] in size that dry or drain within 96 hours. Be sure to consult your local JM sales or technical representative for more information.

Taking a new look at a long-standing technology

Built-up roofing (BUR) is a solid, reliable roofing system of choice for specifiers and owners who rely on long term performing systems that defy the elements. Its layered redundancy and waterproofing performance have given BUR systems their reliable reputation.



Bitumen plays an important role as the main waterproofing agent in BUR. Coal tar pitch was often the technology of choice for dead level commercial roofing due to its unique benefits in ponding water conditions...until now.

Pitching coal tar

As coal tar decreases in use, PermaMop* modified asphalt is an excellent alternative with a proven track record. PermaMop asphalt is produced by Trumbull Asphalt, a division of Owens Corning Roofing and Asphalt, LLC, and is available through distributors of roofing asphalt.

To ensure quality workmanship and top-notch installation, JM offers its Peak Advantage® Contractor Program. Contractors selected for the Peak Advantage program are proven to be best of class, having lived up to the highest performance standards. These contractors have access to JM's strongest guarantees. To assure the best possible results on the roofing system you specify, make sure it's installed by a JM Peak Advantage contractor.



*PermaMop® is a registered trademark of Owens Corning.



PermaMop Asphalt vs. Other Asphalts

Typical Physical Characteristics from ASTM D-312

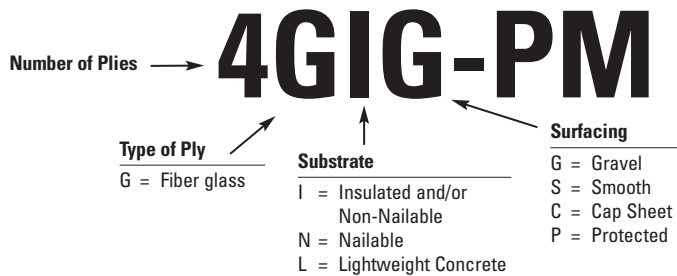
	Type II		Type III		Type IV		PermaMop	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Softening Point (°F)	158	176	185	205	210	225	215	235
Penetration, Units:								
@ 32°F	6	-	6	-	6	-	7	12
@ 77°F	18	40	15	35	12	25	18	30
Flash Point (°F)	500	-	500	-	500	-	525	
Ductility @ 77°F, cm	3	-	2.5	-	1.5	-	7.0	
Typical Application Temperature for Hand-Mopping EVT+ @ 125 CPS ± 25°F++	375		420		445		375	
For Machine Spreader EVT+ @ 75 CPS ± 25°F++	395		450		475		395	

A higher softening point reduces the chance of felt slippage.

Improved ductility provides better resistance to cracking.

*Note: EquiViscous Temperature (EVT), is the temperature at which the liquidity of the asphalt gives the contractor the best opportunity of achieving interply moppings in the 25 pounds-per-square range. The viscosity, and consequently the temperature, is different for hand-mopping versus machine-application. Trumbull asphalt typically has EVT's in the indicated range for this product.

**Typical physical characteristics for Trumbull asphalt.



JM Specifications

BUR with PermaMop Asphalt

- Good: 3GIG-PM three plies of GlasPly® Premier in PermaMop asphalt surfaced with a flood coat of PermaMop asphalt and gravel or slag.
- Better: 4GIG-PM four plies of GlasPly Premier in PermaMop asphalt surfaced with a flood coat of PermaMop asphalt and gravel or slag.
- Best: 5GIG-PM five plies of GlasPly Premier in PermaMop asphalt surfaced with a flood coat of PermaMop asphalt and gravel or slag.

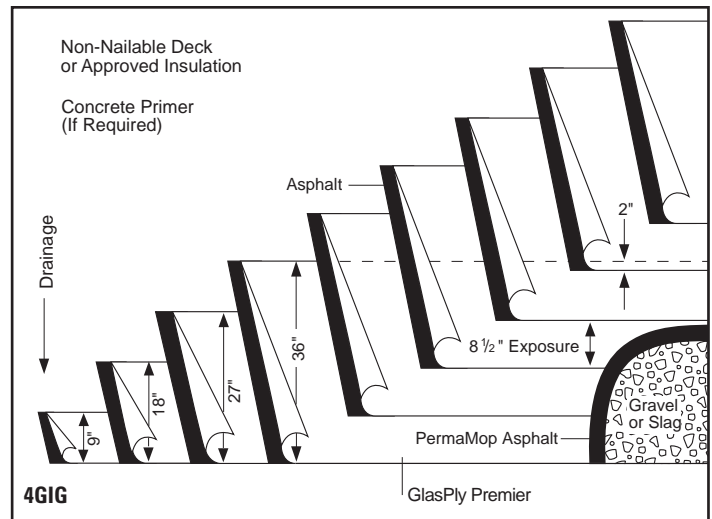
Four Ply Gravel Surfaced Fiber Glass Built-Up Roof. For use over JM insulation, approved decks or other approved insulations, on inclines of up to 3" per foot (250 mm/m).

Materials per 100 sq. ft. (9.3 m²) of Roof Area

Felts:		
GlasPly Premier		4 plies
Asphalt (Interply): Trumbull®*		
Incline per foot	Asphalt	Total Weight
Up to 3" (250 mm/m)	PermaMop	92 lb (42 kg)
Surfacing:		
Flood coat of PermaMop		60 lb (2.9 kg/m ²)
Gravel		400 lb (19.5 kg/m ²)
or Slag		300 lb (14.6 kg/m ²)

Aggregate density, size and coverage will determine actual weight.
Approximate installed weight: 452 - 615 lb (205 - 279 kg).

* Trumbull Asphalt is a registered trademark of Owens Corning Roofing and Asphalt, LLC.



Roofing Systems

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