

# Premium IV™

## A Quality Controlled Hot-Melt Asphalt Adhesive

### FEATURES

- Quality Control
- High quality asphalt
- Consistent EVT

### BENEFITS

- Longer roof life
- Uniform installation characteristics
- Reduced application error

### DESCRIPTION

Premium IV™ is a high quality, special steep asphalt processed from consistent source of asphalt flux. Premium IV meets tightly controlled performance characteristics and exceeds ASTM D312 standards.

### BASIC USES

Premium IV is designed for application as a thermoplastic hot-melt adhesive in a variety of built-up roof configurations. Premium IV can be used as an interply or flood coat adhesive for SBS modified bitumen systems as well as standard built-up roofs. It can also be used to adhere Tremco approved insulations to acceptable substrates.

Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

Available in 100 lb. (45kg) cartons. Sold by pallet only.

### PACKAGING APPLICATION

Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based upon your roof's condition.

**Structural Deck:** Must be properly designed and structurally sound.

**Drainage:** Ponding conditions are unacceptable and will adversely affect performance of any roofing system. If positive drainage does not exist, water removal must be facilitated by lowering drains, and/or installing additional drains, tapered insulation, or an approved cellular lightweight insulating concrete slope system.

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed that can be covered that day.

#### Acceptable Insulations:

| TYPE                | MINIMUM THICKNESS* | FACER         |
|---------------------|--------------------|---------------|
| Fiberboard          | 1/2" (13mm)        | None          |
| gypsum/gypsum fiber | 1/4" (6mm)         | glass/unfaced |
| Perlite             | 1" (25mm)          | None          |
| <b>Sublayer</b>     |                    |               |
| Fiberboard          | 1/2" (13mm)        | None          |
| gypsum/gypsum fiber | 1/4" (6mm)         | glass/unfaced |
| Perlite 1"          | (25mm)             | None          |
| Isocyanurate 1"     | (25mm)             | Black/white   |

\* Minimum thickness for application in Premium IV. Follow insulation manufacturer's instructions to obtain minimum thickness for spanning metal deck ribs.

## APPLICATION CONTINUED

## SURFACING OPTIONS

## LIMITATIONS

## PHYSICAL PROPERTIES

# Premium IV™

**Installation Procedures:** According to job specifications, prepare surface to be covered:

- Replace areas of wet insulation, deteriorated deck, and wood components.
- Install roof insulation or base sheet by mechanical attachment or in a uniform and continuous mopping of Premium IV applied at 25-30 lb/100ft<sup>2</sup> (1.2 - 1.4 kg/m<sup>2</sup>).

Plan placement of roofing ply sheets to ensure that water will flow over or along, but not against exposed edges. Use standard kettle equipped with circulating pump. Do not heat Premium IV above its flash point. Equiviscous temperature range: 425 - 475°F (218 - 246°C). Starting at low point of roof, apply a uniform continuous mopping of Premium IV using standard roofing mop or Tremco approved felt layer.

Use ply sheets to start and finish roof membrane along edges, terminations and projections as specified. Install ply sheets overlapping each previous ply the specified width. Embed each ply in uniform and continuous mopping of Premium IV asphalt.

### Interply application rate:

|                              | LB/100 FT <sup>2</sup> *    |
|------------------------------|-----------------------------|
| FELT                         |                             |
| BURmastic Glass Ply          | 25 (1.2 kg/m <sup>2</sup> ) |
| BURmastic Composite Ply HT   | 25 (1.2 kg/m <sup>2</sup> ) |
| PolyTHERM                    | 25 (1.2 kg/m <sup>2</sup> ) |
| THERMglass                   | 25 (1.2 kg/m <sup>2</sup> ) |
| POWERply systems (all plies) | 25 (1.2 kg/m <sup>2</sup> ) |

\* Application tolerance: ±20%

Ply shall never touch ply. Apply Premium IV no more than ten feet ahead of each roll. Lightly broom plies from unmopped side to assure complete adhesion. Tie in previous work 24" (600mm). Lap ply sheet ends 6" (150mm). Stagger end laps. **Avoid walking on plies until Premium IV adhesion has cooled.** Install flashings as specified.

**Gravel:** Apply Premium IV over roof surface at 60 lb/100 ft<sup>2</sup> (2.9 kg/m<sup>2</sup>) ± 20%.

Immediately broadcast 400 lb/100 ft<sup>2</sup> (19.5 kg/m<sup>2</sup>) of new, clean gravel into adhesive. Aggregate shall conform to ASTM D 1863.

**Smooth Surface:** Consult your local Tremco Representative for specific applications suitable for your geographic area.

**Application Rates:** Premium IV quantities for waterstop/tie-offs, flashings, miscellaneous detail applications and minimum kettle capacity are not included in interply and flood coat application rates.

- Not intended to perform under ponding conditions. Positive drainage required.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.
- Not for use over expanded polystyrene (EPS) or EPS composite insulations installed in any configuration unless EPS is encapsulated within lightweight insulating cellular concrete.
- Not for use to adhere membranes or plies directly over isocyanurate insulation. Isocyanurate insulations must be overlayed with an approved coverboard.
- Not for use over phenolic insulations installed in any configuration.
- Backnail felts on roofs with slopes 2:12 (2" per foot) (17%) or greater. Do not install on roofs with slopes greater than 6:12 (6" per foot) (50%).
- Do not install when ambient temperatures are below 50°F (10°C) unless special cold weather application procedures are followed. Consult your local Tremco Representative for details.

| PROPERTY                                             | TYPICAL VALUE             | TEST METHOD |
|------------------------------------------------------|---------------------------|-------------|
| Softening point                                      | 215 - 225°F (101 - 107°C) | ASTM D 36   |
| Penetration @                                        | 15 - 25 dmm 77°F (25°C)   | ASTM D 5    |
| Flash point, min                                     | 525°F (274°C)             | ASTM D 92   |
| Ductility @ 77°F (25°C)                              | 1.5 cm                    | ASTM D 113  |
| Equiviscous temperature range (218 - 246°C) (125 cP) | 425 - 475°F               | ASTM D 4402 |

## MAINTENANCE

## PRECAUTIONS

## TECHNICAL SUPPORT

# Premium IV™

Your local Tremco Roofing Sales Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

Your local Tremco Roofing Sales Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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