

PERMACOOL HT

High Tensile, Acrylic Elastomeric Roof Coating

DESCRIPTION

PermaCool HT is a premium-grade, 100% acrylic, elastomeric coating designed for use on variety of roofing surfaces and substrates. Upon cure PermaCool HT forms a durable, flexible coating that is highly reflective and resistant to natural weathering.

ADVANTAGES

- ▶ Heavy-duty formula with enhanced tensile and elongation properties for superior strength and longevity
- ▶ Highly reflective, brilliant white finish decreases rooftop temperatures and radiant heat transfer for increased energy savings
- ▶ Excellent resistance against fungal and algal growth and dirt accumulation
- ▶ Environmental friendly and VOC compliant
- ▶ Cost-effective alternative to roof replacement

TECHNICAL CHARACTERISTICS

| PROPERTY | VALUES |
|----------------|-----------------|
| Color | Bright White |
| Physical State | Cures to Solid |
| Viscosity | 110 KU |
| Density | 11.1 lb/gal |
| Flash Point | Non-Combustible |
| VOC | < 50 g/L |

| PROPERTY | ASTM | VALUES |
|-------------------|-------|------------------|
| Tensile Strength | D2370 | 410 psi |
| Elongation | D2370 | 410% |
| Tear Resistance | D624 | 133 psi |
| Solids Volume | D1653 | 55% |
| Solids by Weight | D1644 | 66% |
| Permeability | D1653 | 14 perms |
| Impact Resistance | D2240 | SHORE A: 50 - 55 |

* All values shown are nominal and subject to normal manufacturing tolerances.

ENERGY & ENVIRONMENT*

| PROPERTY | TEST METHOD | INITIAL | 3-YEAR |
|--------------|-------------|---------|---------|
| Reflectivity | C1549 | ≥0.87 | Pending |
| Emissivity | E1371 | ≥0.90 | Pending |
| SRI | E1980 | 107 | Pending |

* All values shown are nominal and subject to normal manufacturing tolerances.

SURFACE PREPARATION

All surfaces must be dry and free of dirt, debris, algae, mildew, oil, talc, loose granules or any other foreign matter that may prohibit adhesion. Surfaces must be pressure washed (3,000 psi minimum) with a mild detergent, chlorine bleach and water solution. A stiff bristle broom may be used on stubborn areas. Ensure all work surfaces are thoroughly dry prior to application.

Performance Roof Systems advises that adhesion/peel tests be performed prior to application to ensure adequate bond can be achieved or if a primer or other specific surface preparation is required.

APPLICATION

Tools: Can be applied using a brush, roller or hand sprayer

Application Rate: 1.5 gallons per 100 SF at 24 wet mils

Working Temperatures: Ambient and surface temperatures must be above 50°F and not fall below 32°F within 24 hours of application.

Working Times* (@ 75°F with 50% humidity)

| DRY TIME | NEXT COAT | FULL CURE |
|----------|-----------|-----------|
| 90 min | 6 hrs | 30 days |

* All working & cure times are approximate and vary upon wind, humidity and ambient/surface temperatures.

Clean Up: For wet material use soap and water; For cured material use mineral spirits or citrus-based cleaners

LIMITATIONS

Do not attempt application if rain or dew are likely to occur before product can dry.

High humidity conditions or late afternoon applications should be avoided as overnight dew formation on uncured surfaces can cause coating wash-off.

Not intended to perform under ponding water conditions. Positive drainage is required.

For complete application instructions please refer to published specifications and recommendations.

PACKAGING & STORAGE

PermaCool HT is available in the following container sizes:

5 gallon pails (18.9 L)

55 gallon drums (208.2 L)

Do not store in direct sunlight. Keep temperature of contents between 55 - 80°F. **PROTECT FROM FREEZING.** Approximate shelf life is 6 months from date of shipment when properly stored.