



MP Acrylic Top Coat 151

Product Description

MP 151 is an advanced acrylic elastomeric coating resin that combines high solids emulsion polymers, reinforcing lamina pigments, and potent biocides to provide superior durability, reflectivity, weatherproofing, and mildew resistance. **MP 151** used non-migrating fire retardant chemicals that are permanently locked into the cured coating. **MP 151** maintains elongation and tensile strength properties at lower temperatures.

Basic Uses

MP 151 was developed for protecting sprayed polyurethane roofing foam from degradation caused by normal weathering, aging and ultraviolet exposure. **MP 151** is formulated property to uniformly cover the profile of many textured substrates. It has superior adhesion to newly applied polyurethane foam, power cleaned acrylic roof coating, concrete, masonry, primed metal, and primed wood. **MP 151** has been used to protect sprayed polyurethane foam on commercial, industrial and residential roofs, as well as hot or ambient storage tanks.

Colors

Top Coat: standard White and Light Tan

Base Coat: Gray

Warranty

Master Pack Material Only Warranty is available for 5-year, 10-year or 15-year periods. Refer to Master Pack Application guide for minimum thickness requirements to qualify for all warranty programs.

Typical Properties

- Solids by Weight:** 66% (± 2) [ASTM D1664]
- Solids by Volume:** 54% (± 2) [ASTM D2697]
- Dry Time for Foot Traffic Resistance:***
 - 3 hours at 75°F (24°C), 50% R.H. Medium Gray @ 16 wet mils (406 microns)
 - 5 hours at 75°F (24°C), 50% R.H. White @ 16 wet mils (406 microns)
 - *Dry times will increase with lower temperature and/or higher humidities.
- Ultimate Tensile Strength:** 224 psi (± 20) @ 75°F (24°C) [ASTM D2370]
- Elongation at Break:** 226% (± 20) @ 75°F (24°C) [ASTM D2370]
- Hardness:** 55-65 Shore A [ASTM D2240]
- Permeance:** 5.7 U.S. perms (3.76 metric perms) @ 20 mils (508 microns) [ASTM D1653]
- Temperature Limits for Normal Service Conditions:** -30°F to 200°F (-35°C to 93°C)
- ASTM D6083 Conformance:** Independently tested to exceed ASTM D6083 standards.
- Resistance to Accelerated Weathering;** QSun Xenon Test Chamber passed 3,000 hours of continuous exposure with no deleterious effects, no surface checking or cracking, no delamination or no color fade. ASTM D6083, ASTM D4798
- Resistance to Wind Driven Rain:** Passed 40 hours of continuous testing, no apparent moisture penetrated when measured with a moisture meter. Federal Specification TTC-555 B

12. Film Breathing Ability: Permeance was at 20 dry mils (508 microns) of 5.7 U.S. Perms (3.76 metric perms). ASTM D1653

13. Simulated Hail Damage: Passed multiple impacts from a 13/4" (4.4 cm) diameter, 3/4lb. (.3 kg) steel ball dropped 17 ft. 91/2", (4.6 m) with no evidence of membrane failure. Factory Mutual Standard 4470

14. Bond Strength: 50 to 60 lbs./sq. inch (.34 to .41 MPa) breaking strength. ASTM C297

15. Resistance to Foot Traffic: Penetration plate – 29 lbs./sq. inch (200 kPa). No tearing, cracking, rupturing or permanent. Tested in accordance with Factory Mutual Standard 4470

16. CRRC Data: Solar Reflectivity 0.83 (initial) and Thermal Emittance 0.92 (initial) - Bright White.

LIMITATIONS & PRECAUTIONS

Do not apply MP 151 at temperatures below 50°F (10°C), or when there is possibility of temperatures falling below 32°F (0°C) within a 4-hour period after application.

MP 151 requires complete evaporation of water to cure. Cool temperatures and high humidity retard cure. Do not apply if weather conditions will not permit complete cure before rain, dew or freezing temperatures occur. Do not apply in the late afternoon if heavy condensation may appear during the night.

MP 151 will freeze and become unusable at temperatures below 32°F (0°C). Do not ship or store unless protection from freezing is available. MP 151 should generally not be used over cold storage tanks or buildings unless applied over a vapor barrier coating. MP 151 shall not be used for interior applications in place of a thermal barrier. For additional information, refer to OSHA guidelines and MP 151 Material Safety Data Sheet.

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