

SPUR+™ 3030 Prepolymer

Description

SPUR+ 3030 prepolymer is an excellent candidate to consider for formulating non-isocyanate, moisture curable roof coatings and waterproof membranes. It was developed to enable the formulation of roof coating with a wide application window and excellent fully cured properties including tear, UV and water resistance.

Performance Properties (Key Features/Typical Benefits)

- Low viscosity can enable broad formulation latitude
- Proprietary pre-polymer design yields a balance of physical and mechanical properties desirable in a roof coating formulation
- Greater hydrophobicity than conventional hybrid polymers
- Improved heat resistance

Typical Physical Properties

| Property | Value |
|---------------------------|-------------------------------------|
| Appearance | Colorless, clear to slightly opaque |
| Active Content | 100% |
| Specific Gravity at 25 °C | 0.9554 g/cm ³ |
| Viscosity at 25 °C | ~ 2500 cP |

Typical properties are average data and are not to be used as or to develop specifications.

Typical Mechanical Properties After Cure

| Property | Value |
|---------------------------------|-------|
| Tensile Strength at Break (psi) | 600 |
| Elongation at Break (%) | 180 |
| Modulus at 100% Extension (psi) | 220 |
| Hardness Shore A | 42 |

Typical properties are average data and are not to be used as or to develop specifications.

The prepolymer was cured via the addition of 1% Fomrez† UL-28 & 0.5% DEMDD in a humidity chamber at 23 °C and 50% relative humidity for ten days, and then tested according to ASTM D412 for tensile properties and ASTM C661 for hardness.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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