

InstaCote ML-1

Typical Physical Properties

Wet: Solids

By Weight 100%
By Volume 100%

Viscosity:

A Component (Isocyanate) 800-1000 s/cps@25°C
B Component (Amine Polymer) 600-800 s/cps@25°C

Cure Times

Gel 2 seconds
Tack Free 25 seconds
Post Cure 24 hours
Recoat Within 2 hours
Shelf life Indefinite
Clean up solvent Xylene, MEK, Isopropyl alcohol, Methyl Pryolidone
Thinner Never Recommended

Cured Product Data

Stress/tensile strength 2500-2800 psi
Elongation@ 25°C(77°F) 280-300%
Hardness 54 Shore D
100% Modulus 1700-1900 psi
Tear Strength Ply 410 PLI
Thermal Shock -65°F with no effect
Thermal Stability +350°F
Impact notched 320 inches/flash pounds

Recommended Uses: ML-1 is a specially formulated spray-on elastomeric product originally intended for irradiation evaluation in the nuclear industry. Many of our spray-on formulations have been successfully used for repairs on lining systems, automotive parts, bridge/ infrastructures, shipping containers, and other applications. Polyurea's are resilient to water and have low permeability which make them an excellent choice for water based applications.

Surface Preparation: For best results surfaces to be coated need to be properly prepared by mechanical or chemical methods which include removing all surface contamination. For metal surfaces sandblasting to a white metal profile is recommended. Concrete surfaces should be etched either through grinding or chemical treatment. Depending on adhesion requirements primers are sometimes used to enhance adhesion.

Application Instructions and Limitations: ML-1 is applied through a heated plural component system. Outside spray applications need to take extra precautions when spraying due to climatic conditions such as low temperatures and the possibility of precipitation.

Safety: Environmentally ML-1 as a polyurea based coating offers no VOC's with little to no odor making it compliant with the strictest VOC and Environmental Regulations. Additionally to the best of our knowledge none of the components used in the manufacture of ML-1 are listed within the SARA 313 Chemicals List or listed on the EPA Watch List..

Storage: Ideally barrels should be stored in a dry area when not in use at temperatures above 60°F to keep product from Freezing and provide maximum performance. To protect stored barrels a plastic elastic dust cover and a insulated wrap can be used. Barrels should remain on pallets and may be stacked up to three pallets high if proper strapping is used to secure barrels. If contaminates such as water or other liquids are introduced into the barrel of material it may affect the stored product. If the product becomes contaminated or is suspected of being contaminated it should be tested before being used.

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