

Elastocoat AC 74000 (Resin and Isocyanate)

Elastocoat AC 74000 (Resin and Isocyanate) is a two component, zero VOC, 100% solids, polyurethane elastomeric coating. This quick setting material cures to form a hard, tough and resilient product that is ideal for the protection of steel pipe against corrosion and abrasion. Elastocoat AC 74000 is designed to meet or exceed AWWA C222 requirements.

Liquid Physical Properties and Recommended Application Parameters:

Elastocoat AC 74000	Resin / Isocyanate
Viscosity, mPa's @ 25°C	800 / 200
Specific Gravity @ 25°C	0.98 / 1.22
Mix Ratio by Volume	2.0 / 1.0

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Component Temperature, °C	66 / 66
Component Pressures, psi	2000 / 2000
Fan Tip	36/40
Gel Time, seconds	90

Available Colors

Tan, Blue

Theoretical Coverage Rate

38.9 ft²/gal at a thickness of 35 mils and a 15% spray loss.

AWWA-C222 Requirements:

Property	Requirement	Status
Cathodic Disbondment (28 day), ASTM G-95	12 mm radius, Maximum	Pass 4.75 mm stain
Pull-off Adhesion, ASTM D4541	➤ 1,500 PSI	Pass (>1500 PSI)
Flexibility 180° bend, 3" Mandrel, ASTM D522	No cracking or delamination	Pass
Impact Resistance, ASTM G14	75 in-lb, Minimum	Pass (154 in-lb)
Abrasion Resistance, ASTM D4060, CS17 1Kg	100mg loss /1,000 revolutions	Pass (65 mg loss)
Water Absorption, ASTM D570	2.0% Maximum	<2.0% after 28 days
Hardness, ASTM D2240 Shore D	65 Minimum	Pass (70 D)
Chemical Resistance, ASTM D543	5% change in mass or length	Pass
Dielectric Strength, ASTM D149	250 V/mil, Minimum	638 V/mil

PROCESSING GUIDE:

ELASTOCOAT AC 74000

Storage/Transport/Use/Shelf life. Containers should be kept tightly closed to prevent moisture contamination. Do not re-seal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Storage temperatures for Elastocoat AC 74000 should be maintained between 50°F and 95°F (10°C-35°C). For best results, these products should not be allowed to freeze. In the event of re-heating, use a well-ventilated oven for a period of time to re-liquefy solid particles. When liquefied, blend material until homogenous. To avoid product degradation, product temperature during the re-heating should not exceed 140°F (60°C). Shelf life of unopened, sealed containers is approximately six months for both the resin and isocyanate under those conditions.

Do not breathe aerosol or vapors. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other sources that may cause excessive local heating.

GENERAL INSTRUCTIONS. It is important that all safety instructions be read and understood by all personnel who will come into contact with the materials. If the safety instructions are lost or otherwise not available, please contact BASF Corporation for a replacement.

A BASF Corporation Material Safety Data Sheet (MSDS) is sent with the original shipment available upon request. All personnel who come in contact with the product should read and understand the MSDS.

HEALTH AND SAFETY:

AEROSOL AND VAPOR INHALATION problems are characterized by coughing, shortness of breath, or tightness in the chest. Anyone exhibiting these symptoms shall be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, SEEK "EMERGENCY TRAINED" MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT with liquid components can result in rash or other irritation. Wipe residual liquid with clean soft cloth followed by washing with soap and water. If a rash or other irritation develops, SEE A PHYSICIAN.

EYE CONTACT with liquid or sprayed components can result in corneal burns or abrasion. Upon exposure, eyes should be flushed with water for an extensive period. SEEK MEDICAL ATTENTION IMMEDIATELY.

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WARNING! These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

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