BASF
The Chemical Company

Technical Product Data

ELASTOCOAT® AC 72376R RESIN
ELASTOCOAT® AC 72375T ISOCYANATE

DESCRIPTION

ELASTOCOAT AC 72376R/72375T is a two-component, zero VOC, 100% solids, polyurethane based, elastomeric coating. This fast-set material cures to form a hard, yet resilient product that is ideal for the protection of steel and ductile iron pipe, and associated fittings, against corrosion and abrasion.

ELASTOCOAT AC RESIN COMPONENT

Appearance:	Viscous Liquid
Odor:	Amine
Specific Gravity (@ 73°F):	1.01 to 1.02
Viscosity (@77°F):	approx 2,000 cps
Flash Point:	Over 200°F

ELASTOCOAT AC ISOCYANATE COMPONENT

Appearance:	Dark Brown Liquid
Odor:	Slight Aromatic
Specific Gravity (@ 77°F):	1.22
Viscosity (@77°F):	200 cps
Flash Point:	Over 400°F
Vapor Pressure:	0.00016 mm Hg (20°C)

PRODUCT CERTIFICATIONS

Meets AWWA-C222 requirements

AVAILABLE COLORS

Blue, Tan

COVERAGE RATE

The approximate coverage rate is 49 ft^2/gal, at a thickness of 35 mils.

PHYSICAL PROPERTIES*

Test	Test Method	Result
Cathodic Disbondment (28 days)	ASTM G95	4.5 mm
Impact Resistance	ASTM G14	> 154 in-lb
Adhesion to Steel	ASTM D4541	> 2100 psi
Abrasion Resistance	ASTM D4060	10 mg
Chemical Resistance	ASTM D543	
10% H_2SO_4		4.74%
30% NaCl		1.03%
30% NaOH		0.60%
30% #2 Diesel Fuel		-0.08%
Dielectric Strength	ASTM D149	530 V/mil
Water Absorption	ASTM D570	1.79%
Hardness (Shore D)	ASTM D2240	80
Flexibility	ASTM D522	Pass

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Polyurethane Solutions

APPLICATION

Machine:	GlasCraft MHR-VR
Spray gun:	GlasCraft Probler 2 †
Mix Chamber:	00
Round Tip:	01
Fan Tip:	62/40
Mix Ratio: Parts by volume:	100 Resin to 100 Isocyanate
Component Temperatures:	170°F Resin/130°F Isocyanate
Component Pressures:	2,200 psi Resin/2,200 psi Isocyanate
Gel Time:	< 60 seconds ‡
Specific Gravity:	> 1.0

PROCESSING GUIDE

STORAGE / TRANSPORT / USE / SHELF LIFE: Components "A" and "B" should be stored in their original, unopened containers at temperatures between 65°F and 85°F. Store drums off of direct contact with cold surfaces for extended periods of time. Transport drums to keep from freezing. Use drums a 65°F to 90°F. Shelf life of unopened, sealed containers is approximately three months for the resin and six months for the isocyanate under those storage conditions.

EQUIPMENT: Follow the ratio instructions above. Mixing and ratio must be closely controlled. Ideally high or low pressure mixing equipment should be used. As is the case where our customers control the chemistry this is the single most important process to control. Optimum properties will vary with type of equipment used, mold temperatures, ambient temperature, and humidity.

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 and available upon request. All personnel who come in contact with the product should read and understand the MSDS.

PROTECTIVE EQUIPMENT: The "A" component is an isocyanate and may cause sensitizing and allergic reactions, particularly from the standpoint of *VAPOR or AEROSOL INHALATION*. The best form of protection against sensitization in the workplace is a *FRESH AIR SUPPLIED RESPIRATOR*. Several manufacturers, including 3M, MSA and others, make full-face fresh air respirators. For minimum protection, organic vapor canister style respirators shall be worn. To prevent contact with the product, wear protective coveralls and fabric gloves over nitrile gloves. Full-face respirators and OSHA approved protective goggles are recommended.

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

* Physical property data was generated with the "Application" conditions listed at a thickness of 30 – 40 mils.

† Gun and tip combinations are influenced by part geometry, desired finish and other factors and should be determined by the applicator.

‡ These items are nominal at the resin and isocyanate temperatures indicated above. Reactivity can be influenced by the temperature of the components, the temperature of the substrate, coating thickness, and environmental conditions.

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