



POLYMERICA

INCORPORATED

POLYMERICA PRODUCT DATA

MasterShield PUR

Premium Utility Resin

PRODUCT PRESENTATION

MasterShield PUR is a clear 100% solids epoxy binder which can be used as a pigmented and clear primer, finish coat, mortar matrix and modified pigmented grout coat over quartz and mortar surfacers.

FEATURES

- Use wherever epoxy resins are required.
- Resistance to U.V. degradation
- Odorless, can be applied in occupied facilities.
- UV stable but not classified as light stable.

PACKAGING

Unit Size	Part A	:	Part B	Weight*
165 gallons	2 x 55	:	1 x 55	1650 lbs.

* approximate shipping weight

INSTALLATION GUIDELINES

Preparation: Surface must be clean, dry and sound. Consult POLYMERICA Bulletin SP-C for full details.

Mixing: Observe all precautions on MSDS and label when using this product. Mix 2 part A : 1 part B by volume with a low speed drill or KOL mixer for at least two (2) minutes.

Cure: Will be track free in as little as 4 hours depending on temperature.

Clean-Up: Clean skin with soap and water; use MEK or epoxy thinner to clean equipment.

PHYSICAL PROPERTIES

Composition: Two-component, Poly Amido Amine adduct cured epoxy

Color: Clear, Light Amber

Gloss; 60°F: 100

Weight/gallons, lbs. mixed: 9.0± .2

Solids Content: 100%

Mix Ratio: 2A : 1B by volume

Pot Life: 77°F mins 28-35

Viscosity mixed, cps: @ 77°F 2500-3000

PERFORMANCE PROPERTIES

Tensile Strength: (ASTM D-638) 8,400 psi

Elongation: (ASTM D-638) 6-9%

Adhesion: (ASTM D-4541)
to metal: 2500 psi
to concrete: 350 psi
(concrete fails)

Hardness: (ASTM D-2240) 80-85 (Shore D)

Abrasion Resistance: ASTM D-4060) 35-40 mg loss
(CS-17 wheel, 1 kg. load, 1000 cycles)

Service Temperature: 160°F (immersion)
185°F (dry heat)

SAFETY

MATERIAL SAFETY DATA SHEETS ARE AVAILABLE FROM **POLYMERICA** AND SHOULD BE CONSULTED PRIOR TO USE OF THE PRODUCT. THIS PRODUCT IS INTENDED FOR USE BY PROFESSIONALS ONLY. KEEP AWAY FROM CHILDREN AND THOSE NOT TRAINED IN THE USE AND POTENTIAL HAZARDS INVOLVED.

MASTERSHIELD PUR IS A TWO PART EPOXY SYSTEM. PART A CONTAINS EPOXY RESINS. PART B CONTAINS POLY-AMIDO AMINE ADDUCTS. WORKERS SHOULD WEAR GLOVES AND GOGGLES WHEN MIXING OR APPLYING PRODUCT. CLEAN UP WITH SOAP AND WARM WATER. BE SURE TO FOLLOW ALL LABELS AND MSDS CAUTIONS.

CHEMICAL RESISTANCE

<u>Reagent</u>	<u>Rating</u>
Acetic Acid-5%.....	L
Aceton.....	L
Bleach.....	L
Citric Acid-30%.....	R
Crude Oil.....	R
Diesel Fuel.....	R
Ethylene Glycol.....	R
Fatty Acids.....	L
Gasoline.....	R
Hydrochloric Acid-15%.....	R
Lactic Acid-15%.....	R
Methyl Ethyl Ketone.....	L
Nitric Acid-10%.....	R
Skydrol.....	R
Sodium Hydroxide-50%.....	R
Sulfuric Acid-20%.....	R
Toluene.....	L
Urea.....	R
Vinegar.....	L
Xylene.....	L

R - Recommended for continuous service.

L - Limited recommendation, occasional spills.

This chart is intended as an aid in evaluating the performance of these systems in various chemical exposures at 75°F. The data is intended as a guide only. PUR is not intended for use in severe chemical environments.

Product data is revised as needed to reflect the most recent technology and field experience. Consult **POLYMERICA** for current printing date of literature.

WARRANTY

POLYMERICA warrants its products to conform to its manufacturing standards. **POLYMERICA** will replace or refund the purchase price of non-conforming product at the seller's option; such remedy being exclusive of all others and

sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of non-compliance and no later than one year from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product data or warranty.

IMPORTANT NOTICE

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