

## ACC EP WQS EPI Engineered Polymers Water Base Quick Set Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

EP WQS Water Base Quick Set, "Powered by Reactamine® Technology", is a two component 60% solids, no VOC, self-leveling modified epoxy. This versatile new generation epoxy displays low blush, fast cure times, and excellent adhesion characteristics. EP WQS can be used as a surface tolerant primer, and will cure in a variety of harsh situations including high humidity. EP WQS can be applied at temperatures ranging from 40° F to 120° F. This environmentally friendly epoxy displays excellent chemical resistance, water insensitivity, and UV resistance. EP WQS will provide a glossy smooth finish when fully cured. Aggregate can be broadcast into this self-leveling material to provide a non-skid surface. EP WQS emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels found in most epoxies and polyurethanes. Applications EP WQS adheres well to several substrates including concrete, steel, and wood. Some typical uses include: CHEMICAL RESISTANT SECONDARY CONTAINMENT OFFSHORE PLATFORMS MAINTENANCE FACILITIES PRIMER FOR MOST POLYUREAS/POLYURETHANES USDA AND FDA ACCEPTABLE COATING INDUSTRIAL FLOORING TANK COATING Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ACC-EP-WQS-EPI-Engineered-Polymers-Water-Base-Quick-Set-Epoxy.php](http://www.lookpolymers.com/polymer_ACC-EP-WQS-EPI-Engineered-Polymers-Water-Base-Quick-Set-Epoxy.php)

Physical Properties	Metric	English	Comments
Viscosity	750 cP	750 cP	Hardener
	750 cP	750 cP	Resin

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength, Yield	61.23 MPa	8881 psi	ASTM D638
Elongation at Break	28 %	28 %	ASTM D638
Flexural Strength	87.370 MPa	12672 psi	ASTM D790
Flexural Modulus	3.34 GPa	485 ksi	ASTM D638
Adhesive Bond Strength	1.72 MPa	250 psi	Wood (no primer), Delamination; ASTM D4541 Elcometer
	>= 2.07 MPa	>= 300 psi	Concrete (no primer), Concrete Failure; ASTM D4541 Elcometer
	>= 10.3 MPa	>= 1500 psi	Steel (no primer), Substrate Failure; ASTM D4541 Elcometer
Izod Impact, Notched	3.74 J/cm	7.00 ft-lb/in	ASTM D628
Taber Abrasion, mg/1000 Cycles	80	80	CS17 WHEEL, 1kg per 1000 cycles; ASTM D4060

Processing Properties	Metric	English	Comments
Cure Time	>= 5.00 min @Temperature 75.0 °C	>= 0.0833 hour @Temperature 167 °F	tack free
Pot Life	240 min @Temperature 75.0 °C	240 min @Temperature 167 °F	

Descriptive Properties	Value	Comments
Color	Light Gray, Dark Gray	
Resistance to Acetic Acid (100%)	Recommended	
Resistance to Acetone	Recommended	
Resistance to Ammonium Hydroxide (50%)	Recommended	
Resistance to Brake Fluid (310g/l)	Recommended	
Resistance to Brine-Saturated H <sub>2</sub> O	Recommended	Resistance to Brine-Saturated H <sub>2</sub> O (310g/l)
Resistance to Gasoline	Recommended	
Resistance to H <sub>2</sub> O	Recommended	
Resistance to Hydrochloric Acid (50%)	Recommended	
Resistance to MEK	Recommended	
Resistance to Methanol	Recommended	
Resistance to Muriatic Acid (10%)	Recommended	
Resistance to NaCl/H <sub>2</sub> O (10%)	Recommended	
Resistance to Nitric Acid (20%)	Recommended Conditional	
Resistance to Potassium Hydroxide (10%)	Recommended	
Resistance to Potassium Hydroxide (20%)	Recommended, Discoloration	
Resistance to Sodium Bicarbonate	Recommended	
Resistance to Sodium Hydroxide (50%)	Recommended, Discoloration	
Resistance to Sodium Hypochlorite (10%)	Recommended	
Resistance to Sugar/H <sub>2</sub> O	Recommended	
Resistance to Sulfuric Acid (>50%)	Recommended Conditional	

Resistance to Sulfuric Acid (10%) Descriptive Properties	Recommended Value	Comments
Resistance to Toluene	Recommended	
Resistance to Xylene	Recommended Conditional	

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