Epo-Weld™ HTE-5352



High Temperature, High Performance Two-Part Epoxy System

PRODUCT DESCRIPTION

Incure Epo-Weld™ HTE-5352 is a two-part epoxy system designed for maintenance and repair of applications operating at high temperatures. Bonds various substrates, it offers exceptional chemical resistance of submerged parts for up to 6 months in various acids, bases, salts, organic fluids and water. Flexural strengths of up to 12,000 PSI is acheiveable on full cure. Incure HTE-5352 delivers outstanding performance on applications within the -65°C to 205°C (-85°F to 400°F) temperature range.

UNCURED PROPERTIES

Chemical Type	Ероху	Mix Ratio	1:1
Appearance	Grey	Density, g/ml	1.68
Viscosity, cP (rpm)	Gel	Pot-Life @25°C (hrs)	4.0

CURE SCHEDULE

Recommended		Alternate	
First Cure	2h @ 95°C (2h @ 203°F)	First Cure	2d @ 25°C 2d @ 77°F
Followed By	N.A.	Followed By	N.A.

CHEMICAL RESISTANCE TABLE

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	SALTS					
Softens	NaCl Sodium Chloride, 5%	No Effect				
Destroyed	ALKALIS					
Discolored	NH4OH Ammonia Hydroxide, 5%	No Effect				
No Effect	NaOH Sodium Hydroxide, 10%	No Effect				
No Effect	NaOH Sodium Hydroxide, 50%	No Effect				
No Effect	ORGANIC FLUIDS					
No Effect	Fuel Oil	No Effect				
No Effect	C8H18 Gasoline	No Effect				
No Effect	Hyraulic Oil	No Effect				
No Effect	Jet Fuel	No Effect				
No Effect	Mineral Spirits	No Effect				
No Effect	Toulene	No Effect				
Etched	Xylene	No Effect				
	Softens Destroyed Discolored No Effect	SALTS Softens NaCl Sodium Chloride, 5% Destroyed ALKALIS Discolored NH4OH Ammonia Hydroxide, 5% No Effect NaOH Sodium Hydroxide, 10% No Effect ORGANIC FLUIDS No Effect Fuel Oil No Effect Hyraulic Oil No Effect Jet Fuel No Effect Mineral Spirits No Effect Toulene				

CURED PROPERTIES

Hardness, Shore	D75
Linear Shrinkage, in/in	0.002
Chemical Resistance	Excellent
Service Temperature	Excellent
Flexural Strength, PSI (ASTM D790)	12,000
Tensile Shear, PSI (ASTM D1002-94)	2,500
CTE, in/in°F x 10-6 °C	30
Thermal Conductivity, Btu-in/hr-ft2 °F	-
Volume Resistivity, ohms-cm@RT	-
Dielectric Strength, volts/mil	-
Dielectric Constant, 1.0kHz	-
Dissipation Factor	-

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APPLICATION PROCEDURES

For two part epoxy systems should be thoroughly mixed until it is uniform. High viscosity systems, pre-heat Part A and Part B separately to 35° - 50°C (95°F to 122°F) to facilitate ease of mixing. Apply product using a spatula, putty knife or caulking gun. Apply to both surfaces and maintain glue line of less than 250 microns (10 mils). Pressure should be applied to the assembled parts to get rid of any air trapped and minimise any warpage.

For HTCP products, cross sections of 3.2mm to 6.4mm (1/8" - 1/4"), consider applications in multiple times to prevent blistering. As a guide, all cross-section joints should not exceed12.5mm to 20mm (1/2" - 3/4").

SURFACE PREPARATION

All bonding surfaces must be free from contaminants such as grease, lose particles, oils, corrosive chemical stains etc. Rough or porous material such as metal castings should be baked at high temperature to burn off any embedded contaminants, especially trapped oils and chemicals. Smooth metal surfaces should ideally be abrasive blasted to 0.25mm (0.001") for optimum results.

STORAGE AND PREPARATION FOR USE

All Epo-Weld™ HTCP should be stored in original containers (or replacement containers of similar material) in room temperature. Use a bigger container (twice the volume of the mixed contents) and leave mixed materials to settle (possibly some out-gassing) for 24hours.

NOTE

The data contained in this document are furnished for information only. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein. INCURE will not be liable for any indirect, special, incidental or consequential loss or damage arising from this INCURE product, regardless of the legal theory asserted. INCURE recommends that each user adequately test its proposed use and application before repetitive use, using this data as a guide.