



HARSH CHEMICAL ENVIRONMENTS

DIAMONDWRAP® ACID EPOXY SYSTEM

The **DiamondWrap® Acid** kit has been designed to be applied in areas, and on pipes, that contain harsh chemicals that will cause problems or deterioration in other epoxies. For a partial list of chemicals that are compatible with the Diamond Wrap® systems, please reference our Chemical Resistance Chart. If a specific chemical that you work with is not on this list, please contact Citadel Technologies for additional information and we will determine how the chemical will affect our system.

ACID EPOXY DATA

PROPERTY	METRIC SYSTEM	ENGLISH SYSTEM
Glass Transition Temperature (Tg)	121°C	250°F
Max Recommended Operating Temperature	83°C	180°F
Recommended Application Temperature Range	27°C – 60°C	80°F – 140°F
Tensile Strength – Hoop	576,719 kPa	83,646 PSI
Tensile Strength – Axial	247,729 kPa	35,930 PSI
Modulus – Hoop	49.1x10 ⁶ kPa	7.13 x 10 ⁶ PSI
Modulus – Axial	23.8x10 ⁶ kPa	3.46 x 10 ⁶ PSI
Nominal Thickness	1.016 mm (2ply) – 3.43 mm (6 ply)	0.04 in (2ply) – 0.135 in (6ply)
Carbon Fiber %	35 – 50%	35 – 50%
Glass Fiber %	0%	0%
Resin Type	2 Part, 100% Solid Epoxy	2 Part, 100% Solid Epoxy
Lap Shear	> 8,273.71 kPa	>1,200 PSI
Hardness @ Full Cure	80 Shore-D	80 Shore-D
Primer Color Code	Green	Green