PHILLYCLAD® #8

Technical Bulletin #966C

DESCRIPTION: PHILLYCLAD #8 is a two component fast setting epoxy laminating resin system designed for high strength fiberglass reinforced repairs to pipes, tanks, valves, and other equipment subject to corrosion or erosion. PHILLYCLAD #8 is also used to repair leaks in cargo heating coils, turbine drains, deck steam lines and other similar areas at operating temperatures to 220°C (428°F).

PHILLYCLAD #8 has excellent resistance to salt water, crude and refined oil, gasoline, caustics and most acids. When used with four layers of fiberglass tape PHILLYCLAD #8 has the capability to withstand in excess of 70 kg/cm^2 (1000 psi) hydrostatic presure after one hour cure.

SURFACE PREPARATION

Repair effectiveness is dependent upon cleanliness of the surface of the repair area. Maximum adhesion is assured by removal of all grease, oil, paint and foreign matter. Surface must be cleaned to rough, bright metal finish by blasting, grinding or with emery cloth. Rinse surface with PRT-59 solvent to ensure a clean area.

MIXING AND APPLICATION

Do not mix hardener with resin until preparations are completed as working time of catalyzed material is approximately 15 minutes at 22°C (72°F). Mix PHILLYCLAD #8 by adding hardener to resin and stirring vigorously until a streak-free uniform color is achieved.

For repair of leaks, brush PHILLYCLAD #8 over an area extending 7.5cm (3") on each side of the repair area. Apply 3.75 or 7.5cm (1-1/2" or 3") fiberglass tape in a spiral wind, overlapping one-half of previous turn. Cover the coated area. Brush additional coat of PHILLYCLAD #8 and repeat for 4 wraps.

PHILLYCLAD #8 may also be used as a coating without fiberglass reinforcement and may be machined after it is fully cured using water as a coolant.

PHYSICAL PROPERTIES

COLOR:	Resin - White Hardener - Black Mixed - Gray
CURE TIME:	Glass reinforced patches 3.0 to 6.5mm (1/8" to 1/4") thick approximately 1 hour @ 22°C (72°F). Thinner coats and lower temperatures require longer.
MIXING RATIO:	4:1 Resin to hardener by volume or weight
PACKAGING:	500 grams (1.1 lb.) Kit, 16 Kits per case
POT LIFE:	10-15 min. @ 22°C (72°F)
SHELF LIFE:	Two years
TEMPERATURE RESISTANCE:	220°C (428°F)
VISCOSITY:	Liquid, Brushable, Pourable
MIL SPEC:	R-17882-C

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