

XCorr® HP 200

by InduMar Systems, LP



XCorr HP 200 is a multi-component epoxy composite repair system designed for high-pressure sealing applications with working pressures up to 2,060 PSI and operating temperatures up to 450°F. The repair system provides a built in 4:1 safety margin.

XCorr HP 200 utilizes a premeasured 2-part epoxy system combined with high performance fiberglass reinforcement fabrics and a technical felt to provide superior leak sealing capacity with strong interfacial bonding. XCorr HP 200 is recommended for high pressure applications up to 2,060 psi with a built in 4:1 safety margin. Return to service in high pressure process piping may be accomplished in ~10 hours.

XCorr HP 200 Attributes

- Novolac epoxy resin yields exceptional chemical resistance
- 100% solids, No VOCs
- 3:1 mixing ratio (pre-measured)
- Cartridge dispensing minimizes waste, ensures complete mixing, and manages pot life
- Fiberglass weave provides multidirectional mechanical reinforcement and conformability to irregular geometries
- Primary technical felt layer ensures complete interfacial wetting and highest pressure performance
- Outstanding compressive and adhesive bond strength
- Produces durable coating that will not shatter under extreme operating conditions
- Accelerated cure times are possible with annealing of the installed repair

XCorr HP 200 Specifications

Packaging: Resin supplied in dual cartridge (parts A and B packaged separately) with pre-measured volumes sized specifically for full coverage of supplied reinforcement fabric. Kits provided with static mixers, spreaders and gloves. Two-part dispensing guns sold separately.

Sizes: Reinforcement tape supplied in 6" widths and premeasured lengths. The required resin volumes are supplied in ready to use 400 mL or 1.0 L dual cartridge assemblies.

Shelf Life: Part A: 12 months at 75°F.
Part B: 12 months at 75°F

Storage Temperature: 32 to 100°F,
0-100% relative humidity

Application Temperature: 50 to 150°F

Surface Preparation: Surfaces must be cleaned of all oil and debris and dried.

For metal surface, a bright metal finish is desired [SSPC-SP10 (immersion) or SSPC-SP6 (non-immersion)].

If possible, the pipe should be at ambient temperature before application.



XCorr HP 200 Properties

Resin at 75°F*

Pot Life: 35 minutes

Dry To Touch: 6 hours

Full Mechanical Strength: 24 hours

Full Chemical Resistance: 24 hours

*Pot life is greatly reduced with increased mixing volume and temperature. Cure time is significantly extended at lower temperature.

Composite

Layer Thickness (per ply): 0.015 in

Lap Shear Adhesion: 1,480 psi (ASTM D 3165)

Dry Adhesion: >2500 psi (ASTM 4541)

Wet Adhesion: >2500 psi, 5 days 158°F water (ASTM 4541)

Sealing Pressure: 2060 psi, 1/8" od hole in 1" steel pipe, 4:1 safety factor

Compressive Strength: 10,000 psi (ASTM C109)

Shore D Hardness: 84 (ASTM D 785)

Temperature/Heat Resistance: From -20°F up to 450°F –continuous, dry. Consult chemical compatibility to gauge wet service performance.



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