



SYSTEM THREE
K&S CHEMICALS

- 1 Qt
- ½ Gal
- 2 Gal
- 5 Gal

Powerbond

Product Description:

Powerbond Epoxy is a strong, flexible, impact resistant, 100% solids, non-shrinking epoxy/polysulfide rubber bonding agent. It is a unique structural adhesive for bonding wet cement to cured concrete, steel or other bondable substrates. Powerbond is a gel, suitable for overhead and vertical bonding and imbedment. Specifically formulated with optimum compressive and tensile properties for use under severe conditions of heavy shock and vibration.

Powerbond has excellent resistance to salt and fresh water, salt spray, weathering, most acids, alkalis, solvents, oils and fuels. Powerbond is mixed at a simple 1:1 mix ratio with color indicators to ensure a thorough mix. It will adhere to concrete, steel, stone, brick, ceramic, FRP and wood. Powerbond will not break down under rolling loads. Powerbond offers dependable bonding and curing when applied to damp cold steel under humid conditions.

Product Uses:

Wet cement to concrete – Adding to foundations or bonding thin cement overlays or repairs to concrete.

Concrete to concrete – Repairing cracks, horizontal or vertical, in slabs, pools, tanks or ponds, or assembling intricate pre-cast concrete sections.

Steel to concrete – Imbedding reinforcing bars vertical or horizontal into drilled concrete.

Steel to FRP – Steel pipe fittings to fiberglass septic tanks or fiberglass pipe lines.

Ferro Cement Boats – Construction or repair. Patching severe damage or attaching interior wood or metal components.

Heavy Traffic Transition Strips – Metal expansion joints to concrete for bridges or tiles to concrete floors.

Securing Aggregate – Bonding to steel or concrete to prevent slippage of asphalt or Carborundum on steel decks and stairs. Often used for high wear safety applications.

Bonding Steel or Cement to Rock – Installing loading ramps and walkways on rocky shores.

Bonding to Asphalt – Reflector buttons for highways, bus lanes, parking lots, etc.

Areas that are suitable for construction or repair with Powerbond include bridges, dams, pipelines, loading docks, piers, rock footings, mines, manholes, sewer or septic tanks, buildings, spillways,

Physical Properties

| | |
|---------------------------------------|---|
| Mix Ratio by Volume..... | 100:100 |
| Mix Ratio by Weight | 100:100 |
| Total Solids..... | 100% |
| Mixed Viscosity..... | 650,000 cps |
| Mixed Color | Gray |
| Minimum Application Temperature | 10°C (50°F) |
| Tensile Strength..... | 4,500 psi average |
| Compressive Strength..... | 15,000 psi minimum |
| Coverage @ 3mm | 0.3 m ² /L (13 ft ² /Gal) |
| Maximum Service Temperature..... | 85°C (185°F) |
| Gel Time @ 25°C (77°F) | 20 Minutes (500g mixture) |
| Tack Free @ 25°C (77°F)..... | 24 Hours (500g mixture) |