

CERABEAD

TechnicalData: DIFFCOR/CR/06-18

Product Description:

CERABEAD is a Ceramic Bead filled Putty lining compound incorporating a blend of Ceramic Beads and Powders. It exhibits outstanding abrasion resistance, adhesion and toughness.

Application:

- 1) Cyclone & separator bodies
- 2) Pump liners and impellers
- 3) Chutes & hoppers
- 4) Housings, separator guide vanes
- 5) Pipe elbows, chutes for clinker, cement, sand

CERABEAD is used where maximum abrasion resistance is needed. It offers toughness to withstand impact of heavy rocks and ores. Possesses resistance to wet acidic and alkaline conditions Temperature range 20 °C to 150 °C.

Technology	Epoxy
Chemical Type	Epoxy
Appearance(Resin)	Dark Red
Appearance(Activator)	White
Appearance(Mixed)	Pink
Components	Two component-requires mixing
Mix Ratio, by volume Resin: Hardener	3:1
Mix Ratio, by weight Resin: Hardener	4:1
Cure	Room temperature cure
Application	Abrasion resistance

TYPICAL PROPERTIES OF UNCURED MATERIAL

Base:

Viscosity: Paste
Weight per liter: 2.3 kg/liter

Hardener:

Viscosity: Paste
Weight per liter: 2.4 kg/liter

Mixed:

Viscosity: Paste

Coverage
thick/1kg 0.2 m² @ 2mm

TYPICAL CURING PERFORMANCE

Curing Properties

Gel Time @ Ambient temp, minutes 30 to 35

Curing time vs. Temperature

Ambient temp	20°C	25°C	30°C
Pot life	65min	45min	30min
Full cure	24hrs	16hrs	12 hrs.

Typical cured properties of material

Compressive strength (ASTM D642) 5500-6000 Psi
 Flexural strength (ASTM 790) 10500-11500 Psi
 Hardness shore D (ASTM D2240) 88-90
 Tensile strength (ASTM D882) 4500-5000 Psi
 Elongation At break % (ASTM D882) 1.2
 Shear strength (ASTM D1002) 2250 Psi
 On grit blasted MS surface
 Abrasion resistance H-18 wheels 32mg
 1000 cycles (ASTM D 4060)
 Cure shrinkage 0.006
 Coefficient of thermal expansion 35 X 10⁻⁶ in/in/°F

PROCEDURE: a clean dry surface free of loose rust or scale is necessary. Abrasive blasting to “near white” is preferred for general use. For severe Immersion conditions or temperature exposure, blast to “white metal”. For concrete – Remove heavy grime by wire brush or mechanical abrasion, degrease with detergent followed by water rinse. Allow to dry fully. All deteriorated and weak concrete must be removed to expose sound surface
 CERAMETAL 2 OR DIFFPRIME can be used as priming material for excellent adhesion.

Mixing:

Mix “base and activator” in specified ration which is supplied in contrasting colors, on clean flat surface. Mix with spatula until a uniform blend free of streaks is obtained