

CERABEAD XTREME

TechnicalData: DIFFCOR/CR/02-18

Product Description:

Cerabead Xtreme is a tough composite material filled with ultra resilient, high strength to weight ration special fiber, ceramic beads and ultra hard densely packed ceramic particles that outstands all material against erosive & pneumatic abrasive environment.

Application:

- 1) Cyclone separator
- 2) Ash handling pipes and valves
- 3) Mining classifier screws & trough, scrubber main lining
- 4) Grit cone, cement mill body, rotor
- 5) Pipe elbows, chutes for clinker, cement, sand
- 6) Coal pulverizes and exhausters Slurry pumps
- 7) Sand pumping equipment
- 8) Dust collectors and exhauster

Cerabead Xtreme Wearing Compound is a two-part ceramic filled epoxy paste designed to protect, rebuild and repair high wear areas of processing equipment. Temperature range 20 °C to 150 °C.

Technology	Epoxy
Chemical Type	Epoxy
Appearance(Base)	Light Grey
Appearance(Activator)	Pale yellow
Appearance(Mixed)	Pale yellow
Components	Two component-requires mixing
Mix Ratio, by volume Resin: Hardener	2.5:1
Mix Ratio, by weight Resin: Hardener	1.7:1
Cure	Room temperature cure
Application	Abrasion resistance

TYPICAL PROPERTIES OF UNCURED MATERIAL

Base:

Viscosity: Paste
Weight per liter: 2.5 kg/liter

Hardener:

Viscosity: Paste
Weight per liter: 2.5 kg/liter

Mixed:

Viscosity: Paste
Coverage: 0.2 m² @ 2mm thick/1kg

TYPICAL CURING PERFORMANCE

Curing Properties

Gel Time @ Ambient temp. Minutes 40 to 45

Curing time vs. Temperature

Ambient temp	20°C	25°C	30°C
Pot life	90min	40min	30min
Full cure	24hrs	16hrs	12 hrs.

Typical cured properties of material

Compressive strength (ASTM D642) 10000-12000 Psi
 Flexural strength (ASTM 790) 8500-9500 Psi
 Hardness shore D (ASTM D2240) 88-90
 Tensile strength (ASTM D882) 4000-4500 Psi
 Elongation At break % (ASTM D882) 1.2
 Shear strength (ASTM D1002) 2000 Psi
 On grit blasted MS surface

Abrasion resistance H-18 wheels 38mg
 1000 cycles (ASTM D 4060)
 Cure shrinkage 0.006
 Coefficient of thermal expansion 32 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