

REPAIR CERAMIC REINFORCED COMPOSITE FOR SEVERE ABRASION WEAR

DGC 1211

Is a solvent and VOC-free, ceramic-reinforced polymer composite specifically developed for repairing surfaces exposed to severe sliding abrasion caused by fine particles. This innovative polymer incorporates a unique blend of fine fillers to enhance the laminar flow of the material. It is ideal for protecting against severe abrasion and corrosion environments.

MAXIMIZING YOUR BENEFITS

100% SOLIDS; NO VOCs

Making it a great choice for any environmentally friendly project

OUTSTANDING SLIDING ABRASION RESISTANCE

Making it an excellent choice for extending the life of your assets

CERAMIC REINFORCED POLYMER COMPOSITE

Extends the equipment's life exposed to particle wear

HIGH GLOSS, LOW DRAG SURFACE

Reducing the amount of energy required to operate the equipment

MAXIMIZING YOUR APPLICATIONS

- Pump cases
- Pipe bends
- Pumps & Valves
- Wear plates
- Slurry systems
- Mixing vessels
- Magnetic separators
- Severe cavitation
- High wear & erosion
- Sliding abrasion

CURING TIMES (25°C)

Dry-to-touch	2 hrs
No loading or immersion	4 hrs
Machining or light loading	6 hrs
Full mechanical load	24 hrs
Full chemical	270 hrs
Dry Film Thickness	3000 µm

PROPERTIES

Adhesion ASTM D4541	21 Mpa >3000 psi
Abrasion resistance ASTM D4060	45 mm ³ H10 (wet)
Compressive Strength ASTM D695	93 Mpa >13400 psi
Hardness (Shore D) ASTM D2240	83
Tensile Strength ASTM D638	37 Mpa >5300 psi
Flexural Strength ASTM D790	66 Mpa >9500 psi
Impact Resistance ASTM D256	2.0 kJ/m ²
Temperature Resistance ASTM D 3418	120 °C 248°F
Heat Resistance	200 °C 392°F

THEORETICAL COVERAGE @ 3000 µm

WINDOW RECOAT

1 kg covers	0.16 m ²	Minimum	2 hrs
5 kg covers	0.80 m ²	Maximum	24 hrs

PACKING

DATA

DGC 1211.01	1 kg	Ratio Volume	3:1
DGC 1211.05	5 kg	Ratio Weight	3.5:1
DGC 1211.20	20 kg	Working time	20 mins
Shelf Life	24 months	Density A + B	2.15

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