

DGC 1511

Is an engineered dual-component ceramic reinforced polymer composite specifically designed to repair and rebuild components exposed to moderate abrasion, severe corrosion, erosion, and chemical attacks. This innovative polymer matrix is designed with medium-viscosity modified epoxy resin and fine ceramic fillers to enhance protection in harsh environments.

MAXIMIZING YOUR BENEFITS

100% SOLIDS; NO VOCs

Making it a great choice for any environmentally friendly project

OUTSTANDING CHEMICAL AND 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

EASY TO MIX AND APPLY

Requires no special tools or skills, perfect for repair services

MAXIMIZING YOUR APPLICATIONS

- Storage tanks
- Secondary containments
- Pumps & Valves
- Wear plates
- Slurry systems
- Mixing vessels
- Heat exchangers
- Slurry systems
- High wear & erosion
- Mechanical impact

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 | 600 µm |

PROPERTIES

| | |
|---------------------------------------|----------------------------------|
| Adhesion ASTM D4541 | 32 Mpa >4600 psi |
| Abrasion resistance ASTM D4060 | 18 mm ³ CS17 (dry) |
| Compressive Strength ASTM D695 | 86 Mpa >12400 psi |
| Hardness (Shore D) ASTM D2240 | 84 |
| Tensile Strength ASTM D638 | 24 Mpa >3400 psi |
| Flexural Strength ASTM D790 | 42 Mpa >6000 psi |
| Impact Resistance ASTM D256 | 2.0 kJ/m ² |
| Temperature Resistance ASTM D 3418 | 125 °C 257 °F |
| Heat Resistance | 200 °C 392 °F |

THEORETICAL COVERAGE @ 600 µm

WINDOW RECOAT

| | | | |
|-------------|---------------------|---------|--------|
| 1 kg covers | 0.95 m ² | Minimum | 2 hrs |
| 5 kg covers | 4.75 m ² | Maximum | 24 hrs |

PACKING

DATA

| | | | |
|-------------|-----------|---------------|---------|
| DGC 1511.01 | 1 kg | Ratio Volume | 4:1 |
| DGC 1511.05 | 5 kg | Ratio Weight | 4.9:1 |
| DGC 1511.20 | 20 kg | Working time | 25 mins |
| Shelf Life | 24 months | Density A + B | 1.75 |

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