

DGC 5311

Is a repair and rebuild metallic and ceramic reinforced polymer composite for applications under extreme erosion, corrosion wear, and high compression loads. Designed with a unique blend of fillers, it's high density, and elevated charge of fillers make DGC5311 ideal for wall-loss repairs, filling voids, and leveling corroded and pitted surfaces.

MAXIMIZING YOUR BENEFITS

METALLIC REINFORCEMENT

Ideal for repair and rebuild services

HIGH BUILD COMPOSITE

Ideal for wall loss recovery

100% SOLIDS; NO VOCs

Making it a great choice for any environmentally friendly project

OUTSTANDING COMPRESSION RESISTANCE

Ideal for applications under severe loads

MAXIMIZING YOUR APPLICATIONS

- Wall-loss repairs
- Leveling corroded surfaces
- Engine blocks
- Hydraulic pistons
- Flanges
- Wear plates
- Rebuild of metal surfaces
- Repair of damaged shafts
- Pump casings
- Turbo separators

CURING TIMES (25°C)

Dry-to-touch	1 hr
No loading or immersion	3.5 hrs
Machining or light loading	4.5 hrs
Full mechanical load	24 hrs
Full chemical	270 hrs
Dry Film Thickness	600 µm

PROPERTIES

Adhesion ASTM D4541	25 Mpa >3600 psi
Compressive Strength ASTM D695	108 Mpa >15600 psi
Hardness (Shore D) ASTM D2240 (24h)	82
Hardness (Shore D) ASTM D2240 (72h)	88
Tensile Strength ASTM D638	46 Mpa >6600 psi
Flexural Strength ASTM D790	78 Mpa >11300 psi
Impact Resistance ASTM D256	2.2 kJ/m ²
Temperature Resistance ASTM D 3418	80 °C 176 °F
Heat Resistance	200 °C 392 °F

THEORETICAL COVERAGE @ 600 µm

WINDOW RECOAT

1 kg covers	0,67 m ²	Minimum	1 hr
5 kg covers	3,35 m ²	Maximum	12 hrs

PACKING

DATA

DGC 531101	1 kg	Ratio Volume	4:1
DGC 5311.05	5 kg	Ratio Weight	8:1
DGC 5311.20	20 kg	Working time	25 mins
Shelf Life	24 months	Density A + B	2.50

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