

DGC 5111

Is a machinable metallic reinforced repair and rebuild polymer composite with outstanding mechanical properties, designed for extreme compression loads, with special metallic fillers to provide a surface with exceptional resistance to compression, DGC5111 is castable and easy to machine even to low tolerances for all your metal protection, repair and rebuild applications under extreme working conditions.

MAXIMIZING YOUR BENEFITS

METALLIC REINFORCEMENT

Ideal for repair and rebuild services

FINE METALLIC FILLERS

For castable and machinable services

OUTSTANDING COMPRESSION RESISTANCE

Ideal for applications under severe loads

100% SOLIDS; NO VOCs

Making it a great choice for any environmentally friendly project

MAXIMIZING YOUR APPLICATIONS

- Hydro-cyclones
- Pipe elbow
- Engine blocks
- Hydraulic pistons
- Slurry pumps
- Wear plates
- Rebuild of metal surfaces
- Repair of damaged shafts
- Pump casings
- Turbo separators

CURING TIMES (25°C)

Dry-to-touch	2 hrs
No loading or immersion	3 hrs
Machining or light loading	4 hrs
Full mechanical load	24 hrs
Full chemical	270 hrs
Dry Film Thickness	800 µm

PROPERTIES

Adhesion ASTM D4541	34 Mpa >4900 psi
Compressive Strength ASTM D695	114 Mpa >16500 psi
Hardness (Shore D) ASTM D2240 (24h)	86
Hardness (Shore D) ASTM D2240 (72h)	91
Tensile Strength ASTM D638	44 Mpa >6400 psi
Flexural Strength ASTM D790	99 Mpa >14300 psi
Impact Resistance ASTM D256	8.0 kJ/m ²
Temperature Resistance ASTM D 3418	80 °C 176 °F
Heat Resistance	200 °C 392 °F

THEORETICAL COVERAGE @ 800 µm

1 kg covers	0,46 m ²
5 kg covers	2.30 m ²

WINDOW RECOAT

Minimum	2 hrs
Maximum	24 hrs

PACKING

DATA

DGC 5111.01	1 kg	Ratio Volume	8:1
DGC 5111.05	5 kg	Ratio Weight	23:1
DGC 5111.20	20 kg	Working time	25 mins
Shelf Life	24 months	Density A + B	2.70

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