maxmetal max 5311

Composite repair for erosion-corrosion wear and high-compression services

max 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 max5311 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 hour
No loading or immersion	3.5 hours
Machining or light loading	4.5 hours
Full mechanical load	24 hours
Full chemical	270 hours
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/m²
Temperature Resistance ASTM D 3418	80 °C 176 °F
Heat Resistance	200 °C 392 °F

THEORETICAL COVERAGE @ 600 µm	
1 kg covers 0,67 m²	
5 kg covers 3,35 m²	

PACKING	
MAX 5311.01	1 kg
MAX 5311.05	5 kg
MAX 5311.20	20 kg
Shelf Life	24 months

WINDOW RECOAT	
Minimum	1 hour
Maximum	12 hours

DATA	
Ratio Volume	4:1
Ratio Weight	8:1
Working time	25 minutes
Density A + B	2.50

maxepoxy
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