

Liquid machinable polymer composite repair to close tolerances

max5412 is a sprayable dual-component metallic reinforced high-performance liquid polymer composite for surface repairs, corrosion prevention, and protection against erosion abrasion and chemical attack, max5412 was designed with special metallic fillers to provide an elevated hardness and easy machining, allowing repairs that require a finish with close tolerances.

Maximizing your benefits

Sprayable

A simpler and faster way to protect your asset

Metallic fillers blend

When low close tolerance machining is required

100% solids; no VOCs

Making it a great choice for any environmentally friendly project

Easy to mix and apply

Requires no special tools or skills, perfect for applications by spray

Maximizing your applications

- Cyclones
- Exhausters
- Pipe elbows
- Wear plates
- Slurry pumps
- Pump casings
- Hydraulic pistons
- Repair of damaged shafts
- Turbo separators
- Structural repairs

THEORETICAL COVERAGE @ 250 µm

1 kg covers 3,08 m²

5 kg covers 15,40 m²

PACKING

MAX 5412.01 1 kg

MAX 5412.05 5 kg

MAX 5412.20 20 kg

Shelf Life 24 months

WINDOW RECOAT

Minimum 2 hours

Maximum 4 hours

DATA

Ratio Volume 4:1

Ratio Weight 9:1

Working time 20 minutes

Density A + B 1.30

CURING TIMES (25 °C)

Dry-to-touch	2 hours
No loading or immersion	4 hours
Machining or light loading	6 hours
Full mechanical load	24 hours
Full chemical	270 hours
Dry Film Thickness	250 µm

PROPERTIES

Adhesion ASTM D4541	30 Mpa >4300 psi
Compressive Strength ASTM D695	90 Mpa >13000 psi
Hardness (Shore D) ASTM D2240 (24h)	78
Hardness (Shore D) ASTM D2240 (72h)	83
Tensile Strength ASTM D638	33 Mpa >4700 psi
Flexural Strength ASTM D790	122 Mpa >17700 psi
Impact Resistance ASTM D256	6.0 kJ/m ²
Temperature Resistance ASTM D 3418	100 °C 212 °F
Heat Resistance	200 °C 392 °F

