maxmetal

Compression and abrasion resistant, metallic-reinforced polymers

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PROTECTION & REPAIR TECHNOLOGY

maxmetal

MAXIMIZING
ASSET EFFICIENCY

MAXMETAL | MAXCERAMIC | MAXPRIMER | MAXVISCO | MAXCOMP

Compression and abrasion resistant, metallic-reinforced polymers

Dual-component polymer composite line developed with the utmost mechanical performance requirements in mind, including extreme compression, corrosion, and abrasion environments. Designed with metallic fillers and special modifiers.

Machinable and castable 100% solids solutions for sealing, bonding, repairs, and structural rebuild in environments under severe mechanical performance requirements.

The finest epoxy polymer composites:

- Quick repair
- Erosion compression
- Modified metal compounds
- Environments under severe conditions
- 100% solids; no VOCs
- Fast cure chemistry
- Surface tolerant
- Extreme intercoat adhesion
- Strong bond to multiple substrates
- Advanced hybrid polymer matrix
- Viscoelastic materials
- Extremely abrasion
- Self-healing properties

MaxApplications:

Pipe and tanks structural reinforcement
Tanks & vessels
Pumps & valves
Drains & secondary containment
Solids handling
Chimneys, flairs and ducts
Shafts, rollers and augers
Structural steel and concrete

MAXCORROSION | MAXWEAR | MAXFRICTION | MAXABRASION | MAXCAVITATION | MAXCHEMICAL | MAXIMPACT | MAXTEMPERATURE | MAXEROSION

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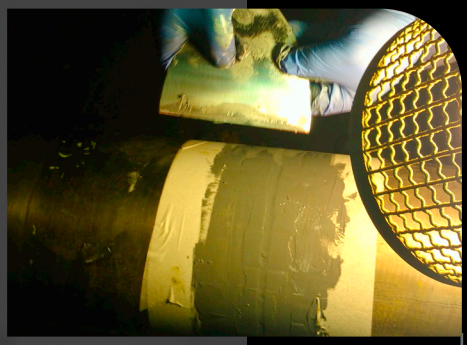
MAX SOLUTIONS



MAXEPOXY® 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.

- Sprayable;
- Metallic fillers blend;
- 100% solids; no VOCs;
- Easy to mix and apply.

MAXEPOXY® MAX5511

Is a 100% solids, solvent, and VOC-free, metallic-reinforced polymer composite developed for emergency or quick permanent repairs. **Max5511** was designed with metallic fillers and special modifiers to provide a permanent metal bonding, repair, or rebuilding solution for your quick repair applications whileproviding outstanding protection against corrosion, erosion, and abrasion.

- Ultra-fast curing;
- Fine metallic fillers;
- Great compression and abrasion resistance;
- 100% solids; no VOC.

MAXEPOXY® MAX5111

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, **Max5111** is castable and easy to machine even to low tolerances for all your metal protection, repair and rebuild applications under extreme working conditions.

- Metallic reinforcement;
- Fine metallic fillers;
- Outstanding compression resistance;
- 100% solids; no VOCs.

MAXEPOXY® MAX5411

Is a fast-curing metallic-reinforced polymer composite designed with excellent mechanical properties to provide protection against corrosion erosion and chemical attack. Ideal for resurfacing corroded and pitted metallic surfaces and worn metal parts that require recasting or machining to close tolerances, **Max5411** was developed with special metallic fillers to provide easy machining after curing.

- Fast-curing;
- Metallic fillers blend;
- 100% solids; no VOCs;
- Easy to mix and apply.

MAXEPOXY® MAX5211

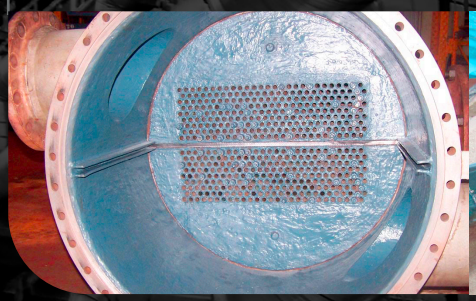
Is a 100% solid, metallic, and ceramic-reinforced polymer composite for compression, corrosion, abrasion, and erosion damage repair, designed with a high content of blended fillers to provide a surface with outstanding resistance for your applications under extreme operational conditions. **Max5211** provides surprisingly high abrasion resistance for a metal repair and rebuild composite.

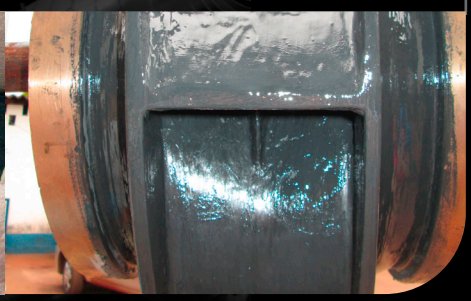
- Metallic reinforcement;
- Fine metallic fillers;
- Outstanding compression resistance;
- Excellent abrasion resistance.

MAXEPOXY® MAX5311

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.

- Metallic reinforcement;
- High build composite;
- 100% solids; no VOCs;
- Outstanding compression resistance.





MAXIMIZING
ASSET EFFICIENCY

MACHINABLE	LOW THICKNESS	HIGH BUILD	QUICK REPAIR	LIQUID	PASTE	ABRASION	COMPRESSION	CASTABLE	CHEM ATTACK	IMERSION	EROSION	PRODUCT
●		●			●		●	●		●		MAX 5111
		●			●	●	●			●	●	MAX 5211
		●			●	●	●	●		●	●	MAX 5311
●		●	●		●			●	●	●	●	MAX 5411
●	●			●				●	●	●	●	MAX 5412
		●	●		●	●	●			●	●	MAX 5511

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maxmetal max5111

Machinable metallic-reinforced polymer repair for high compression services

max5111 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, max5111 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 hours
No loading or immersion	3 hours
Machining or light loading	4 hours
Full mechanical load	24 hours
Full chemical	270 hours
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/m²
Temperature Resistance ASTM D 3418	80 °C 176 °F
Heat Resistance	200 °C 392 °F

THEORETICAL COVERAGE @ 800 µm	
1 kg covers 0,46 m²	
5 kg covers 2.30 m²	

PACKING	
MAX 5111.01	1 kg
MAX 5111.05	5 kg
MAX 5111.20	20 kg
Shelf Life	24 months

WINDOW RECOAT	
Minimum	2 hours
Maximum	24 hours

DATA	
Ratio Volume	8:1
Ratio Weight	23:1
Working time	25 minutes
Density A + B	2.70

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maxmetal max 5211

Composite repair for compression and erosion damage

max 5211 is a 100% solid, metallic, and ceramic-reinforced polymer composite for compression, corrosion, abrasion, and erosion damage repair, designed with a high content of blended fillers to provide a surface with outstanding resistance for your applications under extreme operational conditions. Max5211 provides surprisingly high abrasion resistance for a metal repair and rebuild composite.

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

Excellent abrasion resistance
Making it an excellent choice for protecting your assets

Maximizing your applications

- Pneumatic conveyors
- Pipe elbow
- Engine blocks
- Hydraulic pistons
- Surface leveling
- Wear plates
- Rebuild of metal surfaces
- Repair of damaged shafts
- Pump casings
- Turbo separators

THEORETICAL COVERAGE @ 600 *µm*
1 kg covers 0,62 m²
5 kg covers 3,10 m²

PACKING	
MAX 5211.01	1 kg
MAX 5211.05	5 kg
MAX 5211.20	20 kg
Shelf Life	24 months

WINDOW RECOAT	
Minimum	2 hours
Maximum	24 hours

DATA	
Ratio Volume	8:1
Ratio Weight	20:1
Working time	25 minutes
Density A + B	2.70

CURING TIMES (25 °C)	
Dry-to-touch	2 hours
No loading or immersion	4 hours
Machining or light loading	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	127 Mpa >18400 psi
Hardness (Shore D) ASTM D2240 (24h)	85
Hardness (Shore D) ASTM D2240 (72h)	90
Tensile Strength ASTM D638	44 Mpa >6400 psi
Flexural Strength ASTM D790	89 Mpa >12900 psi
Impact Resistance ASTM D256	2.5 kJ/m²
Temperature Resistance ASTM D 3418	80 °C 176 °F
Heat Resistance	200 °C 392 °F

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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

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maxmetal max5411

Fast-curing machinable composite repair to close tolerances

max5411 is a fast-curing metallic-reinforced polymer composite designed with excellent mechanical properties to provide protection against corrosion erosion and chemical attack. Ideal for resurfacing corroded and pitted metallic surfaces and worn metal parts that require recasting or machining to close tolerances, max5411 was developed with special metallic fillers to provide easy machining after curing.

Maximizing your benefits

Fast Curing
For a quick return to service of 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 repair services

Maximizing your applications

- Structural repairs
- Wall-loss repairs
- Rebuild of metal surfaces
- Hydraulic pistons
- Flange repair
- Pump casings
- Wear plates
- Repair of damaged shafts
- Pump casings
- Turbo separators

CURING TIMES (25 °C)	
Dry-to-touch	2 hours
No loading or immersion	2 hours
Machining or light loading	3 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	78 Mpa >11300 psi
Hardness (Shore D) ASTM D2240 (24h)	85
Hardness (Shore D) ASTM D2240 (72h)	90
Tensile Strength ASTM D638	32 Mpa >4600 psi
Flexural Strength ASTM D790	54 Mpa >7800 psi
Impact Resistance ASTM D256	5.0 kJ/m²
Temperature Resistance ASTM D 3418	80 °C 176 °F
Heat Resistance	200 °C 392 °F

THEORETICAL COVERAGE @ 600 µm	
1 kg covers 0,64 m²	
5 kg covers 3,20 m²	

PACKING	
MAX 5411.01	1 kg
MAX 5411.05	5 kg
MAX 5411.20	20 kg
Shelf Life	24 months

WINDOW RECOAT	
Minimum	2 hours
Maximum	24 hours

DATA	
Ratio Volume	2:1
Ratio Weight	4:1
Working time	15 minutes
Density A + B	2.60

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maxmetal max 5412

Liquid machinable polymer composite repair to close tolerances

max 5412 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

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/m²
Temperature Resistance ASTM D 3418	100 °C 212 °F
Heat Resistance	200 °C 392 °F

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

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maxmetal max5511

Ultra-fast curing composite for emergency and permanent repair

max5511 is a 100% solids, solvent, and VOC-free, metallic-reinforced polymer composite developed for emergency or quick permanent repairs. max5511 was designed with metallic fillers and special modifiers to provide a permanent metal bonding, repair, or rebuilding solution for your quick repair applications while providing outstanding protection against corrosion, erosion, and abrasion.

Maximizing your benefits

Ultra-fast curing
For an extremely fast return to service of your asset

Fine metallic fillers
For castable and machinable services

Great compression and abrasion resistance
Ideal for applications under severe loads and high abrasion

100% solids; no VOCs
Making it a great choice for any environmentally friendly project

Maximizing your applications

- Flanges
- Hydraulic pistons
- Pipes
- Engine blocks
- Rebuild of metal surfaces
- Metal joints
- Pump casings
- Tank roofs
- Scored hydraulic rams
- Repair of damaged shafts

THEORETICAL COVERAGE @ 500 *µm*
1 kg covers 0,77 m²
5 kg covers 3,85 m²

PACKING	
MAX 5511.01	1 kg
MAX 5511.05	5 kg
MAX 5511.20	20 kg
Shelf Life	24 months

WINDOW RECOAT	
Minimum	15 minutes
Maximum	45 minutes

DATA	
Ratio Volume	2:1
Ratio Weight	5:1
Working time	4 minutes
Density A + B	2.60

CURING TIMES (25 °C)	
Dry-to-touch	15 minutes
No loading or immersion	25 minutes
Machining or light loading	45 minutes
Full mechanical load	24 hours
Full chemical	270 hours
Dry Film Thickness	500 µm

PROPERTIES	
Adhesion ASTM D4541	18 Mpa >2600 psi
Compressive Strength ASTM D695	83 Mpa >12000 psi
Hardness (Shore D) ASTM D2240 (24h)	78
Hardness (Shore D) ASTM D2240 (72h)	83
Tensile Strength ASTM D638	42 Mpa >6000 psi
Flexural Strength ASTM D790	61 Mpa >8900 psi
Impact Resistance ASTM D256	2.0 kJ/m²
Temperature Resistance ASTM D 3418	90 °C 194 °F
Heat Resistance	170 °C 338 °F

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PROTECTION & REPAIR TECHNOLOGY

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max 5611

TECHNICAL DATASHEET

DESCRIPTION

maxmetal 5611 is a state-of-the-art polymer for fast and permanent repairs of oil-contaminated surfaces. Its exclusive ADA (Active Direct Adhesion) technology ensures total adhesion on contaminated surfaces.

This high-performance epoxy matrix, reinforced with metallic and ceramic fillers, not only guarantees a superior bond on oily surfaces but also protects your equipment against corrosion, abrasion, and erosion.

TYPICAL APPLICATIONS

maxmetal 5611 is recommended for:

- **Contaminated surfaces:** Maximum adhesion on oil-contaminated surfaces.
- **Structural repairs:** Plate bonding, pit filling, and rebuilding wall thickness.
- **Active leaks:** Sealing active oil leaks in pipes, equipment, and transformers.

CHARACTERISTICS

Finish	Semi-gloss
Dry Film Thickness	1000 µm per coat (It depends on the application.)
Solids by Volume	100%
Color	**Dark gray** **Note:** Slight color variations may occur between batches, but this does not affect product performance.

BENEFITS

- **Metallic and ceramic reinforcement polymer**
  Ideal for repair and rebuild services in abrasive environments
- **Specialty metallic fillers**
  For castable and machinable services
- **Tolerant to surfaces contaminated with oil**
  Reduces costs and time in surface preparation by eliminating the need for substrate decontamination.
- **Ultra-fast curing**
  For an extremely fast return to service of your asset

SURFACE PREPARATION

Before applying the coating, properly prepare your surface by following these instructions:

General

- **Oil and water Contamination:** Removal of oil contamination is generally not necessary, as **maxmetal 5611** is engineered to bond effectively to oil-contaminated substrates.
- **Other Contaminants:** The substrate must be free of any dirt, dust, rust, flaking paint, or other loose material before application.

Surface Preparation

Abrasive Blasting

- **ISO 8501-1, Sa 2 ½**
  Very thorough blast cleaning

Power Tool Bristle Blaster for small areas

- **SSPC-SP 11** Level 1: It is advised to use mechanical-rotary tools such as the *Monti Bristle Blaster*.

Surface Profile

A minimum 50 µm angular profile is recommended.

MIXING INSTRUCTIONS

To prepare the product for application, follow the mixing instructions provided below:

Mixing Instructions

- Mix the Base (A) separately.
- Add the Hardener (B) to the Base (A) and thoroughly mix for up to 3 minutes.
- Ensure the mixture is well-blended and uniform in color.
- After mixing, ensure uniformity and no color streaks or stripes.

Thinning

- No thinning is allowed.

Mixing ratio (A:B)

By volume	By weight
Fast Hardener	
2:1	5:1
Slow Hardener	
8:1	21.3:1

THEORETICAL COVERAGE PER KIT

Fast hardener (1.10 kg)	0.42 m^2/kit at 1000 µm
Slow hardener (1.05 kg)	0.39 m^2/kit at 1000 µm

* Consider losses during mixing and application.

ORDERING INFORMATION

Packing of A and B components

- The kit is supplied with the following packaging:
  A: 1.00 Kg Base
  B: 0.10 Kg Fast hardener (gray)
  B: 0.05 Kg Slow hardener (yellow)

HARDENER TYPES

This product comes with two types of hardeners for different repair needs:

- **Fast Hardener:** Ideal for urgent repairs, this hardener provides a fast-curing time.
- **Slow Hardener:** Formulated for high-stress applications, this hardener offers a slower curing time for optimal performance.

	FAST HARDENER	SLOW HARDENER
Color	Gray	Yellow
Curing speed	Fast (7 minutes @ 25 °C)	Slow (25 minutes @ 25 °C)
Best for	Urgent Repairs	High-Stress Work

POT LIFE (Working Life)

	FAST HARDENER			SLOW HARDENER		
Temperature	15 °C	25 °C	35 °C	15 °C	25 °C	35 °C
Pot Life (minutes)	9	7	5	30	25	15

- Pot life determined at 25°C using a 100-gram sample.
- Larger mixed quantities and/or temperatures above 25 °C will reduce the pot life.
- Note that larger quantities will cure faster. Mix only a manageable amount at a time.

APPLICATION METHODS

Plastic applicator or spatula

FIRST COAT

- **Apply the coating:** Use a plastic applicator or spatula to apply the mixed coating to the surface.
- **Coat Thickness:** Apply a coat with a minimum thickness of 500 µm.
- **Ensure adhesion:** Apply a thin initial layer of coating, pressing it firmly into the surface to maximize contact and create a strong bond. This process promotes the absorption and incorporation of fuel, grease, or oil into the polymer.
- **Finishing:** Continue the application until the specified thickness is reached. Use the application tool to finish the surface.

APPLICATIONS CONDITIONS

The coating application shall be carried out within the following conditions of humidity and temperature:

Ambient Temperature	Minimum:	10 °C
	Maximum:	52 °C
Surface Temperature	Minimum:	10 °C & 3 °C above dew point
	Maximum:	60 °C
Relative Humidity	Minimum:	N/A
	Maximum:	85%

Don't apply in the following conditions

- **Precipitation:** Rain, snow, or any other form of precipitation.
- **High humidity**: Relative humidity exceed 85% or expected to reach this level.

CURE TIMES

DESCRIPTION	FAST HARDENER			SLOW HARDENER		
	15 °C	25 °C	35 °C	15 °C	25 °C	35 °C
Dry-to-touch	28 min.	20 min.	18 min.	3 hours	2 hours	1.5 hours
No loading or immersion	39 min.	30 min.	25 min.	4 hours	3 hours	2.5 hours
Machining or light loading	70 min.	50 min.	44 min.	6 hours	4 hours	3 hours
Partial mechanical load	120 min.	90 min.	80 min.	10 hours	8 hours	7 hours
Full mechanical load	36 hours	24 hours	20 hours	48 hours	36 hours	24 hours

THERMAL CURE

Thermal cure

A **two-step** thermal curing process can be used to optimize the thermal and chemical properties of the coating. This procedure is described in detail below.

1st Step: 2 hours at 80 °C
2nd Step: 2 hours at 140 °C

- **Waiting time:** Wait a minimum of 30 minutes after application before initiating the thermal cure.
- **Total thermal curing time:** 4 hours
- **Note:** The color of the coating may change after the thermal curing process..

CLEAN UP INSTRUCTIONS

- **Immediate Spill Response:** Clean up all spills and splashes promptly using MEK or an appropriate thinner.
- **Tool and Equipment Maintenance:** Thoroughly clean all tools and equipment with the appropriate solvent immediately after each use.
- **Safety First:** Always refer to and strictly follow the manufacturer's safety recommendations when handling and using any solvent.

SAFETY PRECAUTIONS

- Before using this product, users should consult the Safety Data Sheet for adequate information on the handling, storage, and disposal of chemical products.
- Keep the Safety Data Sheet in the area where the product is used.
- Technical data and instructions published are subject to change without notice.
- For more information and instructions, contact your **maxepoxy** representative.

STORAGE

- **Storage Conditions:** Store components in their original, unopened containers in a dry, well-ventilated area with temperatures maintained between 18°C and 25°C.
- **Preventing Contamination:** Don't return unused or mixed materials to their original containers to avoid contamination and potential degradation of product properties.
- **Shelf Life:** Both components have a shelf life of 24 months when stored under the recommended conditions.

WARRANTY

- **maxepoxy** warrants that this product will meet the performance requirements stated in this document, provided that it is stored and used in accordance with the guidelines outlined in this document.
- To ensure the highest possible quality, every product is rigorously tested to globally recognized standards.
- As **maxepoxy** has no control over its use, no warranty can be provided for any application of the product described herein.

TECHNICAL DATA				
			FAST HARDENER	SLOW HARDENER
Application consistency		Visual	Viscous paste	Viscous paste
Visual appearance of the hardener		Visual	Gray	Yellow
Visual appearance after curing		Visual	Dark gray	Dark gray
Density of the mixed components (A + B)		ASTM D1475	2.60 g/cm³	2.70 g/cm³
Adhesion (Pull-Off Strength)		ASTM D4541	> 21 MPa	> 30 MPa
Taber abrasion resistance CS17 Wheel (Dry) 1.0 kg load/loss per 1000 cycles)		ASTM D4060	44 mm³	41 mm³
Hardness (Shore D)	24 hours 72 hours	ASTM D2240	78 83	85 90
Compressive strength	(cure at 25 °C) (cure at 140 °C)	ASTM D695	83 Mpa - - - - - - - - - - -	112 Mpa 118 Mpa
Flexural strength	(cure at 25 °C) (cure at 140 °C)	ASTM D790	61 Mpa - - - - - - - - - - -	93 Mpa 97 Mpa
Tensile strength	(cure at 25 °C) (cure at 140 °C)	ASTM D638	42 Mpa - - - - - - - - - - -	43 Mpa 55 Mpa
Temperature resistance	(cure at 25 °C)	ASTM D3418	90 °C	140 °C
Heat resistance [2]		- - - - - - - - - - -	200 °C	200 °C

1. The values in this table are based on a 7-day curing time at room temperature.
2. Depending on the service, the product remains thermally stable.