



maxepoxy
PROTECTION & REPAIR TECHNOLOGY

Smart **protection** for **equipment** and **structures**
in **mining** that are transforming the world

INDUSTRIAL CATALOG

www.maxepoxy.com

High-performance polymer solutions for repairing,
protecting, and coating mining equipment against
corrosion, abrasion, and wear.

Protecting your equipment starts with choosing the right polymer.

In the mining industry, pipelines and equipment operate under some of the harshest conditions in the industrial world — extreme abrasion from slurry transport, impact from solid particles, chemical attack, humidity, and constant mechanical stress. These challenges demand high-performance materials capable of withstanding severe wear and maintaining operational integrity.

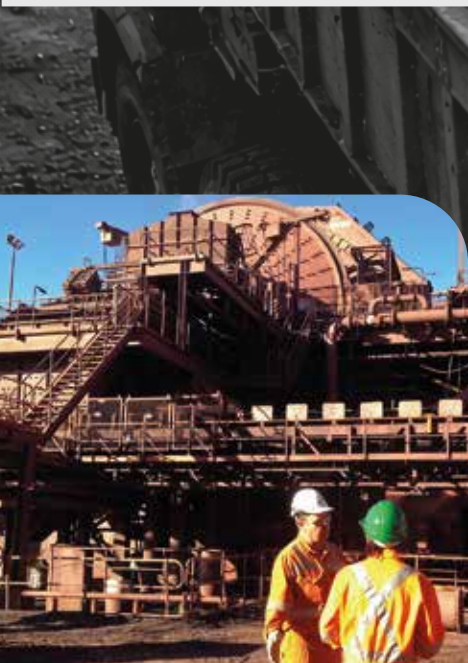
Maxepoxy develops repair and coating systems using advanced epoxy resins and reinforced polymer technology, delivering superior resistance, durability, and long-term performance in critical mining applications.

Preventive maintenance and specialized repairs are essential to ensure continuous, safe, and efficient operations in mining environments, where unplanned downtime can result in significant production and financial losses. Regular inspections combined with high-resistance materials help mitigate wear, control corrosion, and extend the lifespan of pipelines, chutes, pumps, and other process equipment.

Our product line is engineered to perform throughout the entire lifecycle of mining assets — from thickness recovery in worn areas caused by abrasion, to full protection against leaks, corrosion, and erosive wear — ensuring reliability, productivity, and operational excellence.

Who we are

MaxEpoxy is a global company whose products and services are meticulously engineered to not only meet but exceed the demands of the harshest industrial environments. With an unwavering commitment to quality, the company offer unparalleled resistance to a multitude of challenges including abrasion, erosion, corrosion, and chemical attack.



Maxepoxy solutions applied at every stage of mining operations.

The degradation of pipelines and process equipment is...

...one of the greatest operational risks in mining operations.

Each Maxepoxy product is developed for a specific need — from surface preparation to structural reinforcement with the application of epoxy resin combined with polymers suitable for each requirement.

Applications illustrated in the image:

- **MAXPRIMER:** adhesion and preparation of metallic surfaces.
- **MAXCERAMIC:** ceramic-reinforced polymers with high abrasion and impact resistance.
- **MAXMETAL:** metallic reinforcement for high-compression areas.

Most common causes in mining operations:

- Abrasive wear from ore and tailings
- Erosion caused by high-solid slurry flow
- Wall thinning and microcracks
- Leaks in joints and connections

Consequences

- Unplanned shutdowns
- Environmental contamination (tailings/leaks)
- Financial losses and safety risks

Maxepoxy solutions are designed to mitigate these factors and extend the service life of mining industries.

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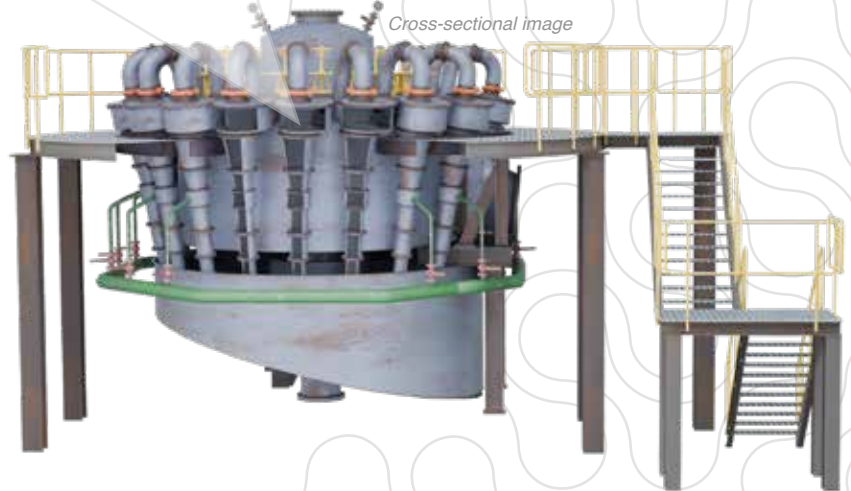
MAXIMIZING
ASSET EFFICIENCY

CYCLONE

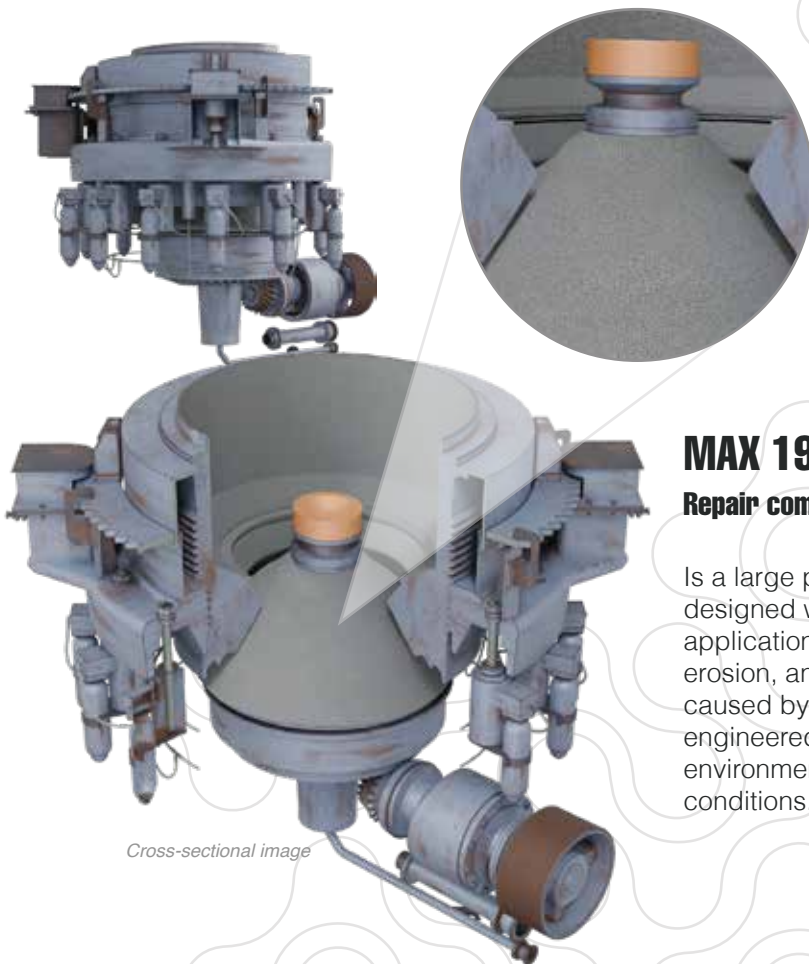
MAX 5111 application

Machinable metallic-reinforced polymer repair for high compression services

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.



Cross-sectional image



Cross-sectional image

CRUSHER

MAX 1911 application

Repair composite for extreme abrasion and cavitation

Is a large particulate reinforced polymer composite designed with a unique blend of ceramic fillers for your applications under extreme cavitation, corrosion, erosion, and sliding abrasion wear, particularly when caused by large and coarse particulates. This engineered polymer meets the demands of your environment, even under the most challenging conditions.



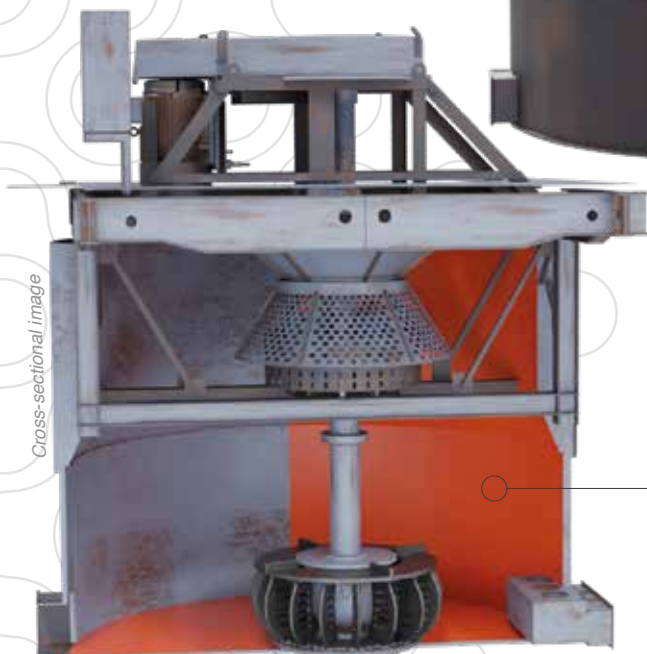
FLOTATION TANK

application **MAX 2612**

Sprayable high-density crosslinked polymer composite

Is a high-density crosslinked ceramic reinforced dual component liquid polymer composite, sprayable and easy to use for severe wear and chemical attack in dry and immersion applications. It is designed with a medium-viscosity epoxy resin and fine ceramic fillers, making it ideal for increasing flow and reducing friction and wear due to turbulence.

Cross-sectional image

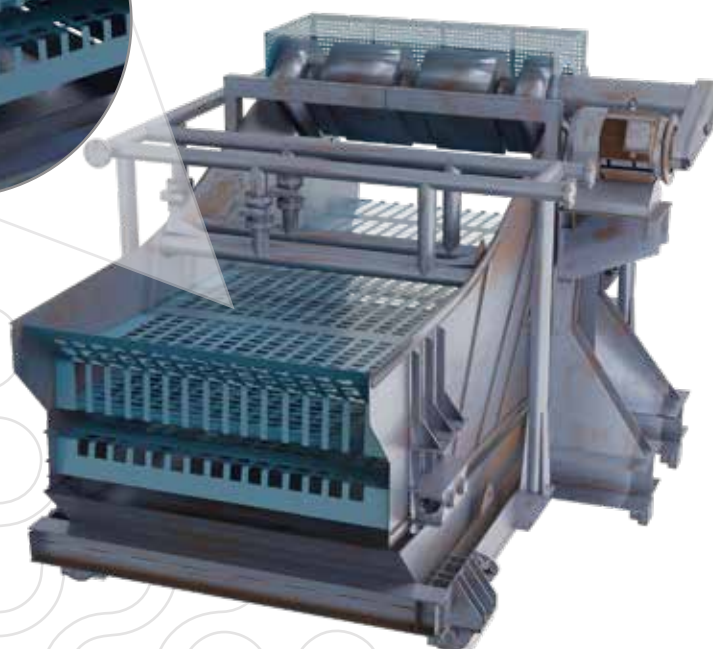
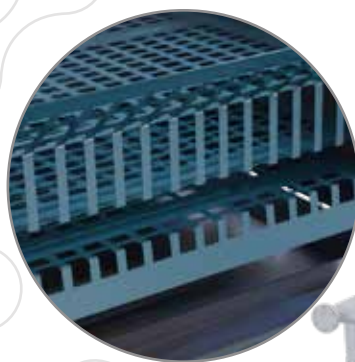


SCREENS

application **MAX 5511**

Ultra-fast curing composite for emergency and permanent repair

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.

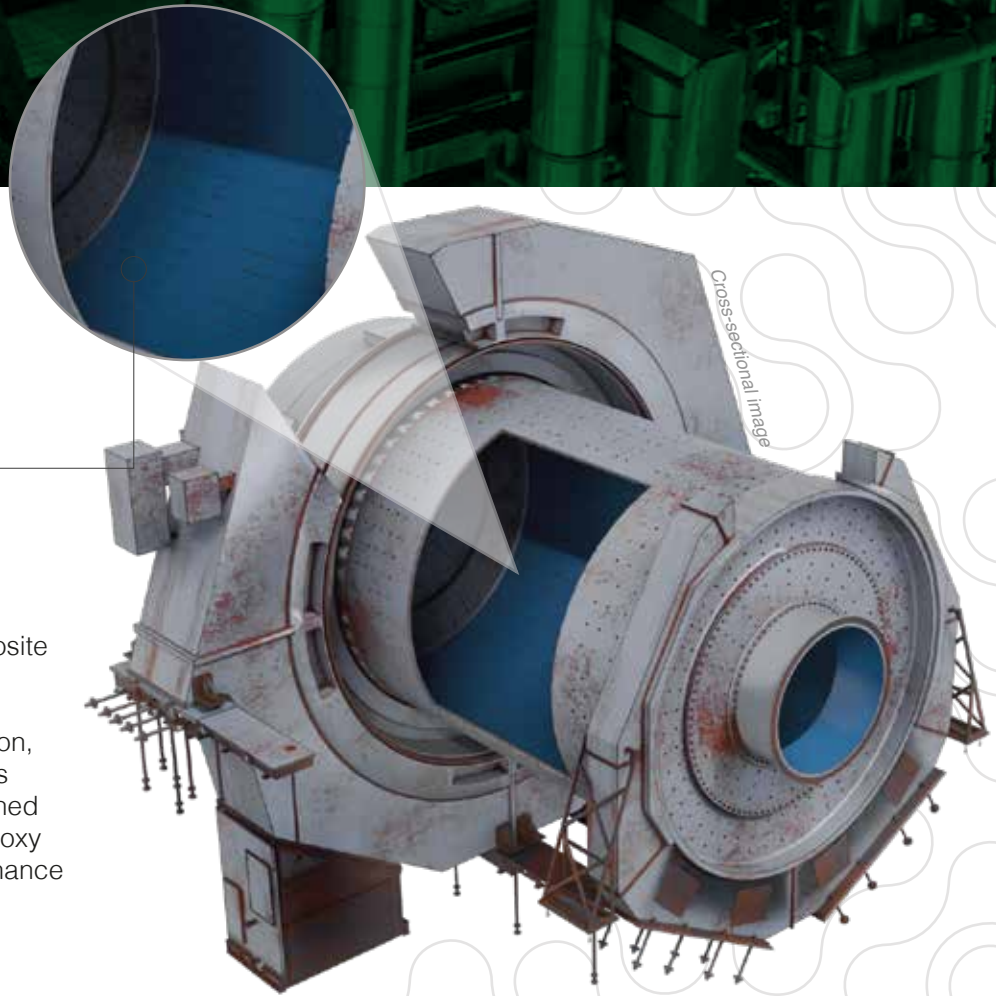


MILLS

MAX 1511 application

Rebuild composite for abrasion and chemical protection

Is an engineered dual-component ceramic reinforced polymer composite specifically designed to repair and rebuild components exposed to moderate abrasion, severe corrosion, erosion, and chemical attacks. This innovative polymer matrix is designed with medium-viscosity modified epoxy resin and fine ceramic fillers to enhance protection in harsh environments.



MAX 1512 - is an engineered dual-component low-drag, ceramic-reinforced liquid polymer composite designed with a low-viscosity, high-solids modified epoxy resin. This innovative polymer incorporates fine ceramic fillers to protect surfaces exposed to services under extreme chemical attack, severe erosion, corrosion, and light abrasion environments.

MAX 1512



MAX 1311 - is a dual-component ultra-fast curing, ceramic reinforced polymer composite specifically designed for your applications under severe sliding abrasion wear caused by midsize particulate. This innovative polymer incorporates a unique blend of special medium-sized fillers to enhance protection in extreme abrasion and corrosion environments.

MAX 1311

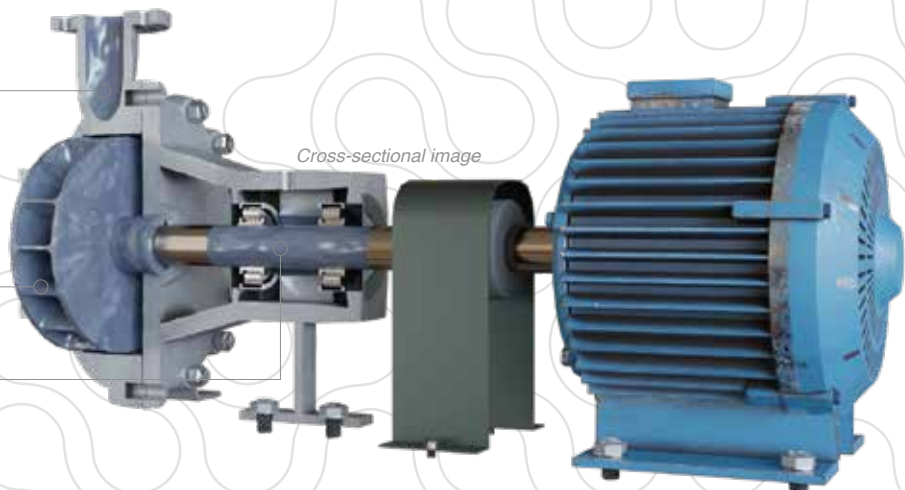


MAX 1612



SLURRY PUMPS

MAX 1612 - is our dual-component, sprayable, ceramic-reinforced liquid polymer composite for applications in environments exposed to extreme erosion corrosion, and chemical attack. It is designed with micro-ceramic fillers and provides a smooth, polished finish with exceptional chemical and abrasion resistance, and it is ideal for immersion and dry services.



EXCAVATOR

MAX 5311 application

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

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.

MAX 1552 application

Repair composite for severe corrosion, erosion, and chemical attack

Is a 100% solids ceramic reinforced liquid polymer composite designed for applications under severe corrosion, erosion, chemical attack, and fine particle abrasion. It is formulated with fine ceramic fillers to provide a smooth, polished finish with high impermeability and abrasion resistance. It is a dual-component composite that offers excellent performance against the mentioned challenges.

MAX 1711 application

Hybrid repair composite for extreme impact and severe abrasion

Is a new generation of high shape-memory, hybrid resin polymer composite developed specially to increase surface protection against continued direct impact. This dual-component hybrid resin is reinforced with fine ceramic fillers ideal for applications exposed to severe fine particulate sliding abrasion, erosion, and corrosion.



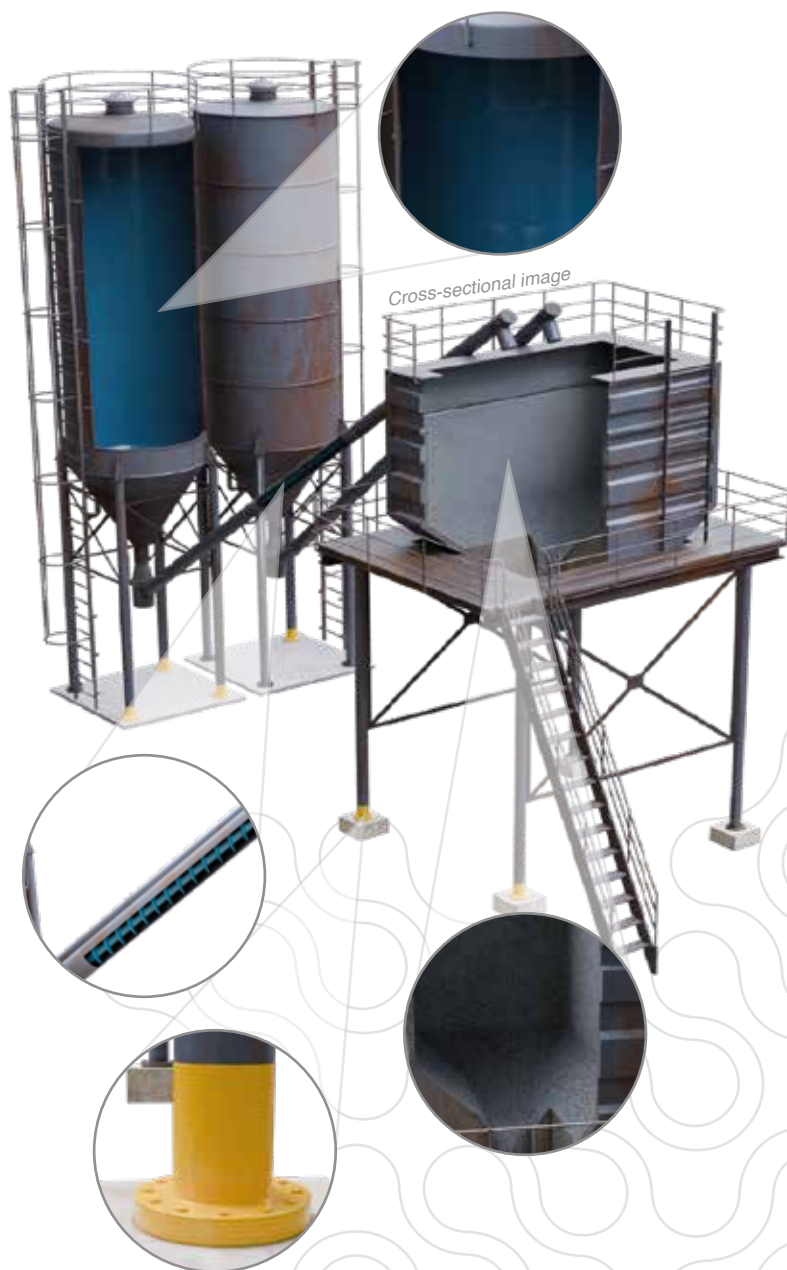
Cross-sectional image

ROLLERS

MAX 1512 application

Low drag, repair composite for erosion and chemical protection

Is an engineered dual-component low-drag, ceramic-reinforced liquid polymer composite designed with a low-viscosity, high-solids modified epoxy resin. This innovative polymer incorporates fine ceramic fillers to protect surfaces exposed to services under extreme chemical attack, severe erosion, corrosion, and light abrasion environments.



HOPPER

MAX 1711 application

Hybrid repair composite for extreme impact and severe abrasion

Is a new generation of high shape-memory, hybrid resin polymer composite developed specially to increase surface protection against continued direct impact. This dual-component hybrid resin is reinforced with fine ceramic fillers ideal for applications exposed to severe fine particulate sliding abrasion, erosion, and corrosion

MAX 5412 application

Liquid machinable polymer composite repair to close tolerances

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.

MAX 8242 application

Is a novolac epoxy primer and sealer for extreme adhesion

Is a novolac epoxy primer and sealer for extreme adhesion on concrete and steel substrates for your applications under chemical exposure, making it ideal for dry and immersion environments.

Why choose Maxepoxy technology?

Quick application

Reduces production downtime and operational costs, because Maxepoxy systems are 100% solids, fast-curing, and surface-tolerant, allowing application with minimal surface preparation and rapid return to service — even on in-service assets.

High adhesion

Reliable bonding on metals, composites, and in-service pipelines achieved through advanced polymer chemistry and Active Direct Adhesion (ADA) mechanisms, enabling strong mechanical and chemical anchoring even on marginally prepared or contaminated substrates.

Extreme resistance

Long-term protection against corrosion, impact, abrasion, and chemical attack resulting from reinforced epoxy matrices and engineered fillers designed to withstand aggressive mechanical loads, abrasive media, and harsh industrial chemicals in severe service environments.

Full compatibility

Suitable for gas, oil, water, mining slurries, and offshore pipelines because Maxepoxy formulations are chemically stable, pressure-tolerant, and adaptable to diverse operating conditions, including buried, submerged, and high-humidity environments.

Sustainability

Extends asset lifespan and reduces replacement needs by enabling in-situ repair and rehabilitation, Maxepoxy minimizes material waste, shutdowns, and carbon footprint associated with asset replacement.

Proven technology

Validated in demanding industrial applications worldwide with a track record across mining, oil & gas, energy, and water treatment sectors, supported by field performance, testing data, and long-term operational references.

At **MAXEPOXY**, we understand that exceptional products are only part of the equation. That's why we've established a global network of highly **trained local distributors**, ready to offer the best customer service in the industry. We believe in building **strong relationships** with our customers, offering **personalized assistance** and guidance at every stage of the process.



MAXIMIZING ASSET EFFICIENCY

Some solutions for mining applications

MAXCERAMIC 2612

- Outstanding adhesion;
- Outstanding compression strength;
- Dry and immersion environments;
 - Severe wear protection;
- Increases the laminar flow;
- High-density crosslinked.

MAXCERAMIC 1711

- High compressive strength;
- Sliding abrasion resistance;
- Extreme impact protection;
 - Ceramic reinforced;
 - High build;
- High memory hybrid resin.

MAXCERAMIC 1552

- High impermeability;
- Superior improved flow;
- Smooth, polished finish;
 - Ceramic reinforced;
- Extreme abrasion resistance;
- High compressive strength.

MAXCERAMIC 1511

- Outstanding adhesion;
- High abrasion protection;
- Severe corrosion protection;
- Extreme chemical resistance;
 - Fine ceramic fillers;
- High compression strength.

MAXCERAMIC 1911

- Extreme abrasion resistance;
- Extreme cavitation resistance;
- Excellent mechanical strength;
 - Ceramic reinforced;
 - High build;
- Repairs & rebuild.

MAXCOMP 9182

- ABS Type Approval
- ASME PCC-2 and ISO 24817
- Structural reinforcement
- Intense quality control tests
- Engineered composite repair
- Several widths options

MAXMETAL 5111

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

MAXMETAL 5511

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

MAXMETAL 5311

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

MAXMETAL 5412

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

MAXPRIMER 8242

- Outstanding adhesion;
- Low-viscosity modified epoxy resin;
- Great compression resistance;
- Sprayable;
- 100% solids; no VOCs.

The suggested applications should not be considered the only options to be used. Each case should be technically analyzed by a qualified professional to choose the best coating option.



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