



**Advanced Mechanical Polymers**



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## About MCOR



## REPAIR & SAVE Advanced Mechanical Polymers

MCOR is a manufacturer and supplier of industrial repair and coating polymers designed primarily for maintenance, cold repair and protection of pumps, industrial structures, machinery components and equipment. MCOR offers cold-applied products for industrial repairs and protective coatings often utilised by mechanical shops, maintenance personnel, and other end-users who seek a welding alternative or have cold-welding needs. These solve industrial maintenance repair requirements and preventive maintenance protection needs utilizing polymer epoxies, protective coatings, ceramic coatings, urethanes, and other advanced polymer repair and coating systems. Our customers often seek to reclaim lost metal, repair warped or worn mechanical components, utilize emergency field repair kits, service pumps or fluid handling process equipment, and restore masonry related structures with concrete repair epoxy.

Born from a "cold" repair product line and pump coating manufacturer, today MCOR serves industries such as mining, energy, oil and gas, food and beverage, marine, municipal water and wastewater, and many more; exhibiting high rates of wear and abrasion due to moving mechanical parts, aggressive fluid and solid material handling, steam, heat, and chemicals. We service at a global level with our headquarters in Florida – manufactured and made in the USA.

MCOR Australia is committed to helping our customers with their corrosion and abrasion, prevention and repair needs to prolong the life of critical assets.

The MCOR range of products can form an integral part of any maintenance schedule and drive down life cycle cost within business for many years to come

MCOR products are high end, best-in-class 100% solid epoxies

with NO VOC's (volatile organic compounds) that have zero shrinking when cured.

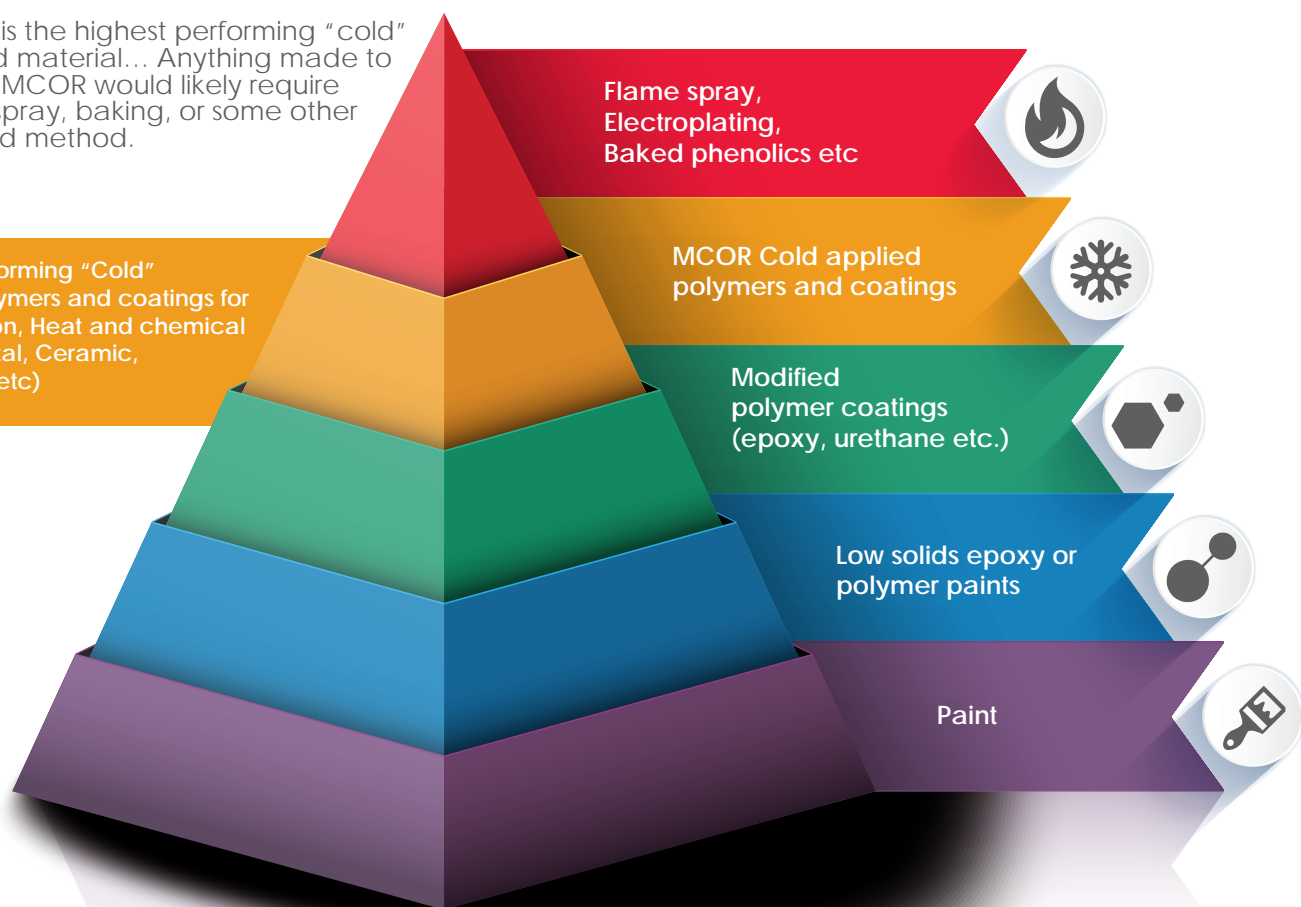
MCOR is not a paint, it's not a thin film, it's not a low solids coating.

MCOR represents the HIGHEST performing, COLD polymer applications on the market to combat corrosion, whether REPAIR or COATING/LINING for environments such as;

- High HEAT
- Harsh CHEMICAL
- High ABRASION

MCOR is the highest performing "cold" applied material... Anything made to outlast MCOR would likely require flame-spray, baking, or some other induced method.

Highest Performing "Cold" applied polymers and coatings for high abrasion, Heat and chemical attack. (Metal, Ceramic, Teflon filled etc)





## 1000 Series | mCoat

### Industrial-grade Protective Coatings



Before



After

High performance coatings for protection of mechanical components in harsh environments.

**MCOR 1110** | mCoat IM – Immersion-grade, UME novolac hybrid suited for splash protection and immersion.

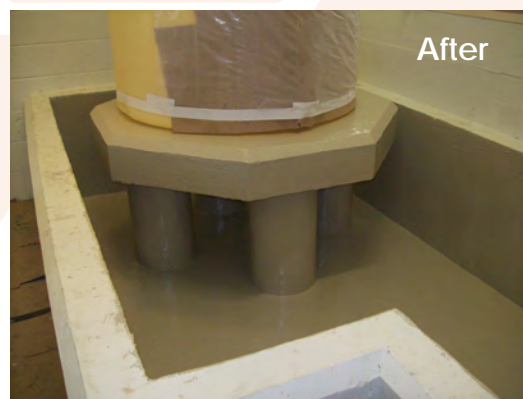
**MCOR 1161** | mCoat IM 61 – Immersion-grade, industrial coating for potable, drinking water environments (NSF Certified).

**MCOR 1230** | mCoat IM HT – Immersion-grade, titanium/novolac hybrid with high heat tolerances.

**MCOR 1298** | mCoat IM Plus – Immersion-grade, 100% novolac protection for high chemical resistance.



Before



After





## 1000 Series | mCoat

### Industrial-grade Protective Coatings

#### 1000 Series Applications

##### **MCOR 1110 mCoat IM**

**Kit Size: 15kg**

- Immersed/submerged pump, casings, and pipe components
- Interior tanks and vessels
- Immersed machinery and equipment
- Immersed offshore and marine structures
- Industrial below-grade or sub-structures, columns, saddles, etc
- Exterior protection against splash
- Other immersed assets

##### **MCOR 1161 mCoat IM 61**

**Kit Size: 14kg**

- Water storage tanks
- Water treatment and process vessels
- Fluid flow pumps and impellers
- Fluid flow troughs
- Immersed mechanical areas

##### **MCOR 1230 mCoat IM HT**

**Kit Size: 5kg**

- Separators
- Heat exchangers
- Knock-out drums
- Regenerators
- Absorbers
- Return tanks
- Steam components
- Distillation units
- Isolation spools

##### **MCOR 1298 mCoat IM Plus**

**Kit Sizes: 1kg, 2kg, 8kg**

- Primary and secondary containment
- Interior tanks and vessels
- Coating immersion pumps and components
- Exposed assets vulnerable to splash and harsh corrosives
- Seamless and sealed environmental protective lining
- Other high chemical, industrial coating and lining





## 2000 Series | mPlait

Advanced Performance  
Ceramic Coatings



Before



After

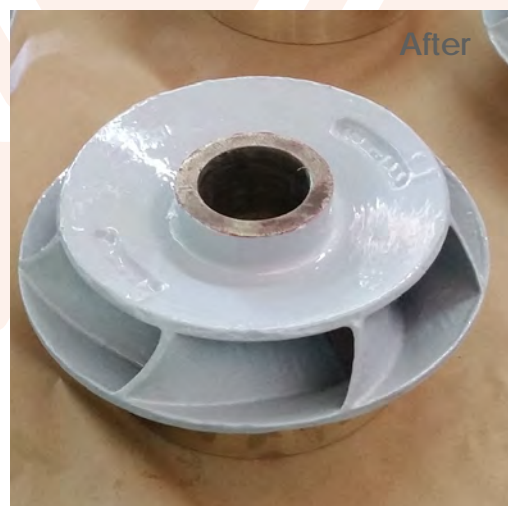
Advanced ceramic coatings for high abrasion areas of internal pump and flow components.

**MCOR 2101** | mPlait MP – Brushable ceramic filled novolac for high abrasion coating (self-leveling, medium precision film build).

**MCOR 2555** | mPlait X – Brushable ceramic filled novolac for high abrasion coating (high film build for the harshest abrasion areas).



Before



After



## 2000 Series | mPlait

Advanced Performance  
Ceramic Coatings

### 2000 Series Applications

#### MCOR 2101 mPlait MP

Kit Sizes: 1kg, 2kg, 8kg

- Fluid flow pumps and impellers
- Mechanical wearing areas
- High flow troughs
- High velocity frictional protection
- Silo and transfer areas
- Heat exchangers
- Nozzles, injectors and valves
- Blowers and scrubber filters

#### MCOR 2555 mPlait X

Kit Sizes: 1kg, 2kg, 8kg

- Fluid flow and aggregate pumps and impellers
- Dredging equipment lining
- High flow troughs
- High velocity frictional protection
- Pipe elbows
- Silo and transfer areas
- Heat exchangers
- Nozzles, injectors and valves







## 3000 Series | mClad

### Reclaiming & Cladding Polymers



Before



After

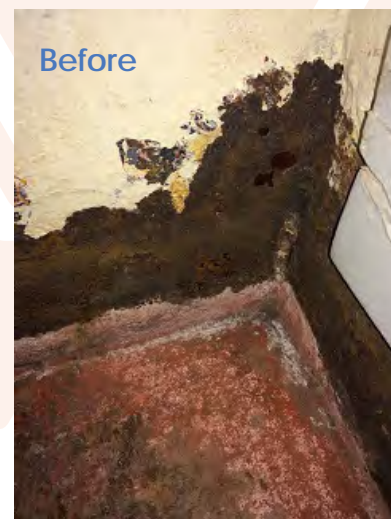
Advanced, high build repair polymers for precision reclaiming, metal filling, and high build wear cladding.

**MCOR 3115** | mClad mFill – Multipurpose, metal filler and metal repair paste.

**MCOR 3310** | mClad Metal – Machinable and tooling-grade metal paste for reclaiming, repair, filling and re-dressing metal loss areas (ferrous metal grade).

**MCOR 3330** | mClad Ceramic Metal – Machinable and tooling-grade ceramic paste for reclaiming, repair, filling and re-dressing metal loss areas (inert, for any metal).

**MCOR 3880** | mClad Ceramic Metal – Two-component, solvent-free, self-priming moisture insensitive epoxy compound, comprised of advanced resins with blended ceramics and aluminum oxide



Before



After





## 3000 Series | mClad

### Reclaiming & Cladding Polymers

#### 3000 Series Applications

##### MCOR 3115 mClad mFill

Kit Size: 4kg

- Oversized mating and gaps
- Metallic faces and filling
- Fractured pipes and components
- Pitted metal reclaiming
- Anchoring and adhesive
- Fractured, holed, leaking trays, tanks, hulls or vessels
- Other metal filling, repair, and reclamation needs

##### MCOR 3310 mClad Ceramic Metal

Kit Sizes: 3kg, 7kg

- Oversized bearing / bush housings
- Cavitated impellers / propellers
- Fractured and holed casings / blocks
- Corrosion cells and tank leaks
- Sloppy keyways
- Scored machine beds
- Flange faces
- Fractured pipes
- Pitted and warped valves

##### MCOR 3330 mClad xWear Alumina

Kit Size: 2kg

- Oversized bearing / bush housings
- Cavitated impellers / propellers
- Fractured and holed casings / blocks
- Corrosion cells and tank leaks
- Scored hydraulic rams
- Sloppy keyways
- Scored machine beds
- Flange faces
- Fractured pipes
- Undersized / scored shafts
- Pitted and warped valves

##### MCOR 3880 mClad xWear Alumina

Kit Sizes: 7kg, 18kg

- Oversized mating and gaps
- Metallic faces and filling
- Fractured pipes and components
- Pitted metal reclaiming
- Anchoring and adhesive
- Fractured, holed, leaking trays, tanks, hulls or vessels
- Other metal filling, repair, and reclamation needs





## 4000 Series | mFlex Polymeric Elastomers



Repair and life extension of flexible components.

**MCOR 4045** | mFlex MD Fluid – Medium durometer, fluid elastomeric polyurethane for joint seals and other sealing requirements, or rubberized coating needs.

**MCOR 4155** | mFlex MD Vertical Elastomer – Medium durometer, fluid elastomeric polyurethane for vertical joint sealing needs and other vertical or overhead sealing requirements.





## 4000 Series | mFlex Polymeric Elastomers

### 4000 Series Applications

#### **MCOR 4055 mFlex MD Fluid**

**Kit Sizes: Kit available last quarter of 2016**

- Pumps and diaphragms
- Flange repairs
- Couplings
- Machinery and equipment seals
- Casting and fabricating rubber components
- High durometer joint and expansion sealant
- Flexible adhesive and rubber repair
- Impact and shock absorbers
- Flexible rubber lining and coating

#### **MCOR 4155 mFlex MD Vertical**

**Kit Sizes: Kit available last quarter of 2016**

- Pumps and diaphragms
- Flange repairs
- Couplings
- Machinery and equipment seals
- Casting and fabricating rubber components
- High durometer vertical joint and expansion sealant
- Flexible adhesive and rubber repair





## 5000 Series | mCrete Polymeric Cements



Repair and life extension of concrete and masonry components.

**MCOR 5101** | mCrete R Gel –  
High performance, multi-purpose  
concrete repair epoxy paste.

**MCOR 5105** | mCrete R Compound –  
Two-component moisture insensitive,  
highly adhesive, chemical resistant,  
100% solids, high strength epoxy paste  
with superior adhesion

**MCOR 5511** | mCrete Corpac –  
Light weight, epoxy based repair  
polymer (ultra-high hanging ability for  
deep filling and packing, including  
overhead and vertical)

**MCOR 5555** | mCrete FloGrout –  
Flowable slurry grade epoxy compound  
(level-grade cladding repair / form and pour grade)

**MCOR 5800** | mCrete ROC Liner –  
advanced epoxy modified mortar

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## 5000 Series | mCrete

### Polymeric Cements

#### 5000 Series Applications

##### 5000 Series Applications

###### MCOR 5101 mCrete R Gel

Kit Size: 4kg

- Segmental epoxy
- Structural caulk
- Anchoring
- Adhesive
- Filler, patch and repair
- Tie-in, termination
- Reinforcement

###### MCOR 5105 mCrete R Compound

Kit Size: 7kg

- Adhesive, segmental and anchoring epoxy
- Reinforcement compound
- Structural patching and filler
- Concrete repair with sectional or total protection
- Protective, structural-grade coating and liner
- Ultra-high moisture, wet solution
- Ideal for various substrates including masonry, metal, wood, and some plastics

###### MCOR 5511 mCrete Corpac

Kit Size: 6kg

- Repair, restoration, and rebuilding of deteriorated concrete and masonry requiring permanent repair
- High build application of deep spalled concrete (especially vertical and overhead)
- Rehabilitation of structural ceilings, columns, pilings, walls, balconies and railings
- Epoxy-grade encapsulation of exposed reinforcing bars
- Decorative or ornate mouldings and cosmetic repairs
- Exceptional bonding material for concrete, brick, masonry, stone, or brick
- Protection against water and chemical infiltration

#### 5000 Series Applications

##### MCOR 5555 mCrete Androquartz Flogrout

Kit Size: 26kg

- Trowel-based lining
- Horizontal re-topping
- Sealed, resistant slab formation
- Permanent patching and repair
- Reforming restoration
- Ultra-high wear area protection
- Impact protection

##### MCOR 5800 mCrete ROC Liner

Kit Size: 21kg kit

- Industrial infrastructure repair
- Resurfacing
- Repairing concrete walls, ceilings, lining brick
- Sanitary sewers, manholes, lift stations, water and wastewater treatment plants



## Accessories

Primers, cleaners, thinners, release agents and equipment/tools more.

### **MCOR Primecoat MTe**

Solvent-based epoxy base coat and primer for steel.

### **MCOR Primecoat SE**

Solvent-based epoxy base coat and primer for concrete and masonry.

**SOLVENTS** – Thinners, cleaners, purging, cutting, etc.

### **MCOR #1 Reduction**

Blended solvent for thinning and reducing.

### **Release Agents**

MCOR MP Release Agent – A convenient, liquid sealing agent and release agent in one. Will facilitate the release of cured MCOR products from concrete, stone, brick, wood, metal and other surfaces.

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