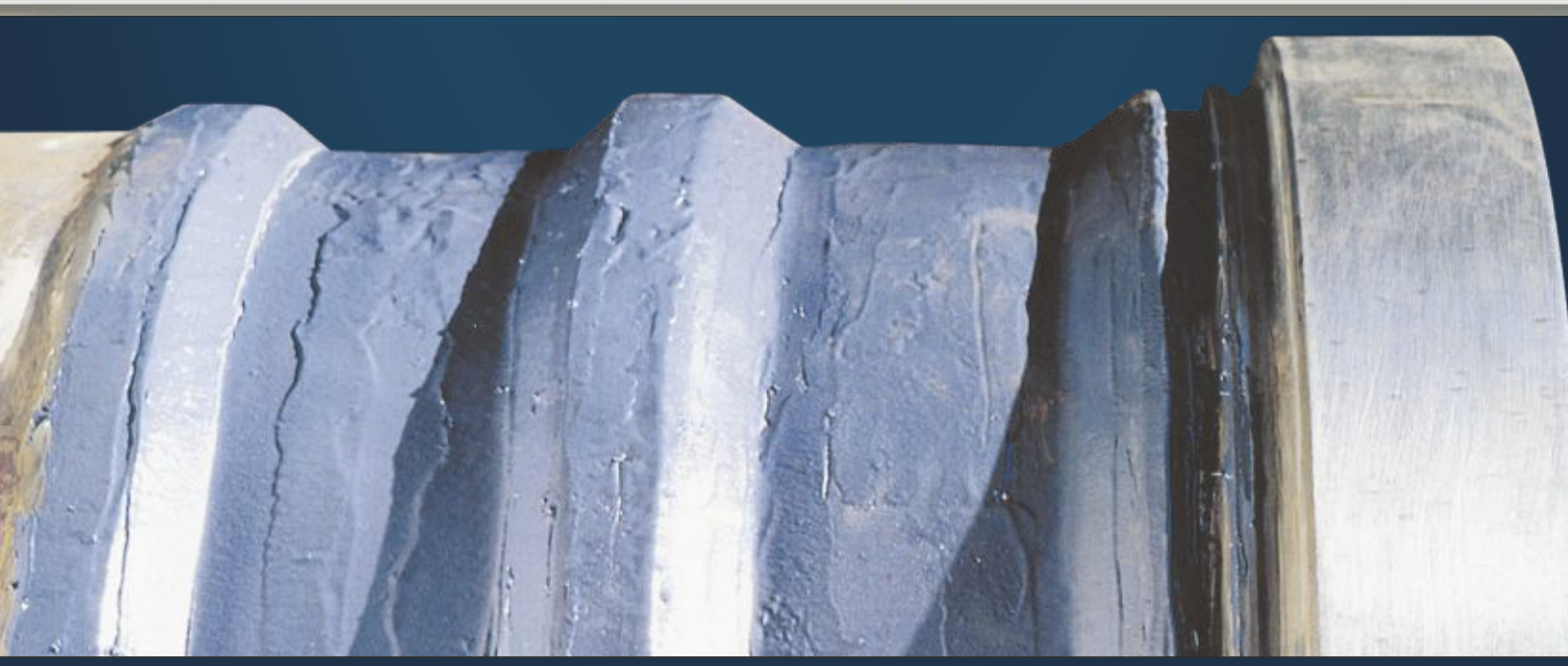
products for the most demanding clients

chester molecular®



REGENERATIVE MATERIALS

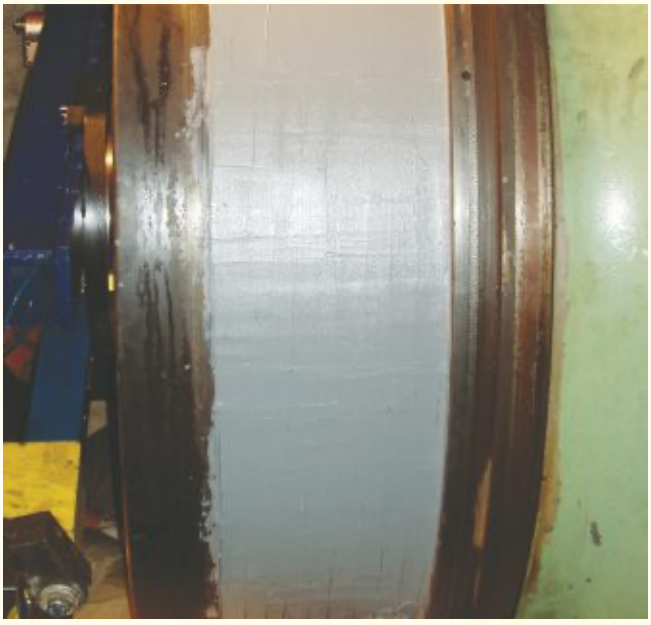
SURFACE RECONSTRUCTION

RECONSTRUCTION OF SHAFTS AND SOCKETS FOR ROLLING BEARINGS

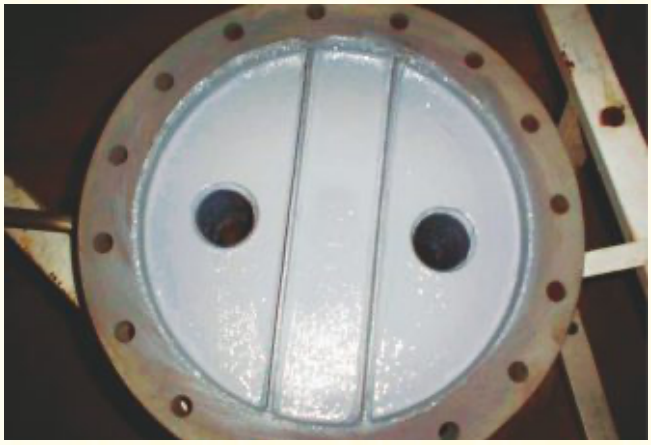
Chester Metal Super, Super SL, Super FE

Multi-purpose, two-component, thixotropic, epoxy-metallic composites.
Intended to rebuild shape, replenishing decrements in machine elements, bonding, removal leaks, seating of bridge bearings.
They are characterized by excellent adhesion and compressive strength.
Chester Metal Super SL has an extended working life.
Chester Metal Super Fe for the applications requiring finish machining.

Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on metal and concrete surfaces.
No shrinkage on cure.

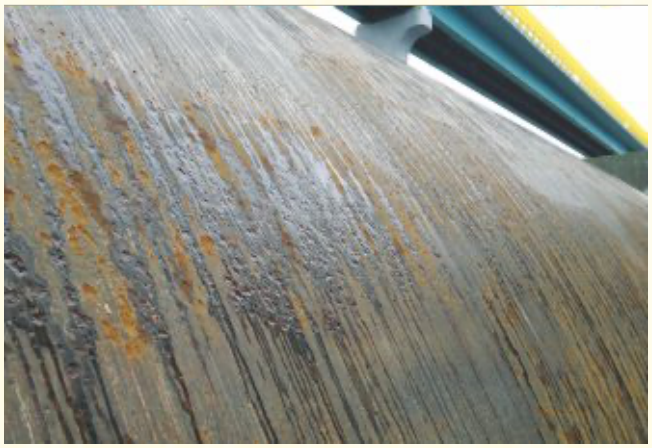


SURFACE RECONSTRUCTION

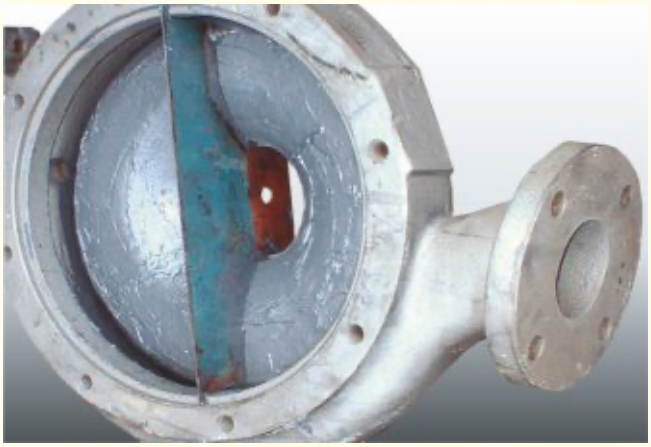


RECONSTRUCTION OF TANKS, HULLS OF SHIPS, SHAFTS, MOULDS FOR CONCRETE, WEIRS, HEAT EXCHANGERS (BAFFLES, STUB PIPES, BOTTOMS, HEADS)

Chester Metal Super, Super SL



SURFACE RECONSTRUCTION



RECONSTRUCTION OF PUMP IMPELLERS AND BODIES, PIPES, VALVES AND GATE VALVES.

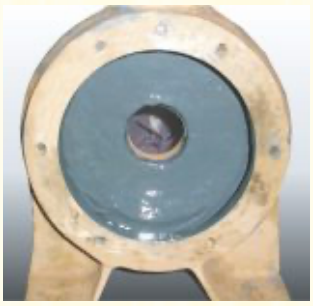
Chester Metal Ceramic T

Thixotropic, two-component composite with ceramic fillers used for rebuilding deep cavities and give the original shape.
For rebuilding:

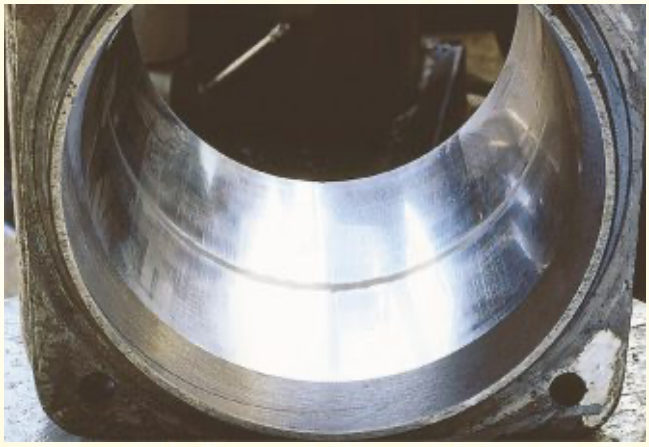
- damaged pump bodies and impellers
- valves and gate valves
- propellers
- bow thrusters
- screw propellers and Kort nozzles

To levelling, to give the smoothness and protection of the surface we recommend liquid ceramic compounds: **Chester Metal Ceramic F, FSL** or **FHT.**

Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on metal surfaces.
No shrinkage on cure.



SURFACE RECONSTRUCTION



RECONSTRUCTION OF SLIDEWAYS, SHAFTS AND BUSHINGS OF PLAIN BEARINGS, THE PISTON RODS AND CYLINDERS OF ACTUATORS, THE SURFACE SEALING WORKING WITH O-RINGS

Chester Metal Slide, Slide F

The two-component composites with excellent sliding properties.
Metal Slide is thixotropic composite and Metal Slide F is semiliquid.
Recommended to:

- the piston rod and cylinders of actuators repairs
- rebuilding of the surface sealing working with o-rings
- repairs of slideways
- reconstruction of worn shafts or bushings of plain bearings

Contains molybdenum disulphide.
Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on metal surfaces.
No shrinkage on cure.

REPAIR OF CASTING DEFECTS OF MACHINE PARTS MADE OF NON-FERROUS METALS: ALUMINIUM, BRASS OR BRONZE

Chester Metal Super AL, ALF, MS, BR

Metal Super AL, MS i BR (thixotropic) and
Metal Super ALF (semiliquid) are two-component composites of similar colours to aluminium, bronze and brass.
For removing casting defects in cast iron we recommended **Metal Super.**

Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on surfaces of non-ferrous metals or cast iron.
No shrinkage on cure.

SURFACE RECONSTRUCTION

RECONSTRUCTION OF CONCRETE ELEMENTS, MACHINE FOUNDATIONS, SEALING OF TANKS AND CULVERTS, PROTECTION OF CONCRETE SURFACES AGAINST ABRASION AND AGGRESSIVE CHEMICALS, FOUNDATION OF MACHINES.

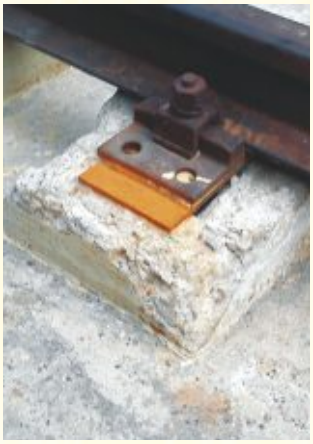
Chester Quartz

Thixotropic epoxide composite with quartz fillers used for:

- reconstruction of concrete elements
- sealing of concrete tanks and culverts
- protecting concrete surfaces exposed to abrasion and aggressive media
- deposition (anchoring) of elements in concrete
- making mechanically and chemically resistant floorings and sump trays
- making or repairing foundations for machines and devices

Chester EVY

Liquid material for foundation of machines and repair of cracks in concrete.
Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on concrete and metal surfaces.
No shrinkage on cure.



SURFACE RECONSTRUCTION

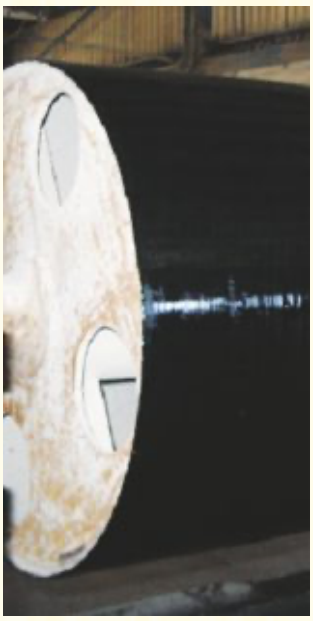
RECONSTUCTION OF BELT CONVEYORS, RECONSTRUCTION OF PUMP BODIES AND IMPELLERS, TANKS, RUBBERIZED SHAFTS, ROLLERS, CHUTES, HOPPERS

Elastomer 95T, 85T, 75T, 80 TR

Elastomers are two-component thixotropic polyurethanes with the hardness's most common in industry.
Due to its properties they are used for rebuilding surfaces witch are exposed for high abrasion:

- pumps for transporting e.g. concrete mortar
- rubberized agitators, tanks,
- belt conveyors and rollers
- chutes, hoppers
- forms
- non-typical seals

Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on rubber and metal surfaces.
No shrinkage on cure.



chester molecular

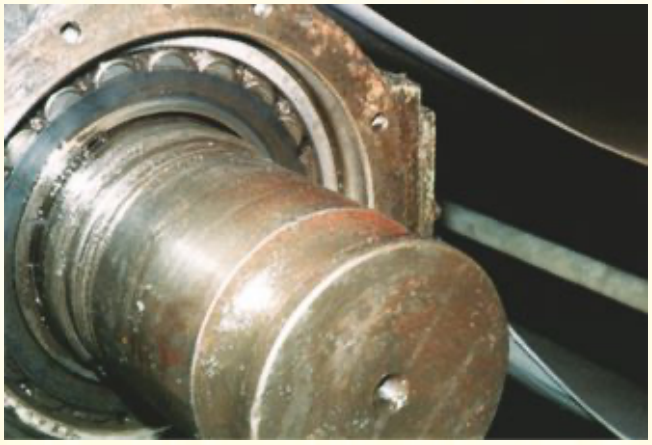
REMOVING LEAKS

REPAIR OF CRACKED BODIES, TANKS, PIPELINES, FLANGE CONNECTIONS, LEAKS ON WELDS

Chester Metal Super, Rapid E
Elastomer 85T, 75T, 95T

Metal Super and Rapid E are two-component, thixotropic, epoxy-metallic materials.
Intended for removing leaks in machines and their elements, bodies, pipelines etc.
They are characterized by excellent adhesion and compressive strength.
Metal Rapid E has very short curing time.
Elastomers are two-component polyurethanes.
They may be used for sealing of pitch surfaces from the outside (e.g. generators)

Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on metal, concrete surfaces.
No shrinkage on cure.



ASSEMBLING BEARINGS, BONDING CERAMIC AND BASALT CLADDING, FRICTION LININGS OF CLUTCHES AND BRAKES, PINS OF SHIP'S RUDDERS

Chester Metal Super, Super SL

Multi-purpose, two-component, thixotropic,
epoxy-metallic composites.
Designed to rebuild shape, replenishing decrements
in machine elements, bonding,
removal leaks and seating of bridge bearings.
They are characterized by excellent adhesion
and compressive strength.

Easy to mix and apply.
100% solids.
Cure at room temperature.
Used on metal and concrete surfaces.
No shrinkage on cure.

APPLICATION OF CHESTER REGENERATIVE MATERIALS

APPLICATION FIELDS	Super	Super SL	Super Fe	Cer T	Cer F, FSL	Cer FHT	Rapid E	Slide, Slide F	Super AL, BR ALF, MS	Chester EVY	Quartz	Elastomer 95T, 75T 85T, 80TR	APPLICATION FIELDS
Metallic pump impellers and bodies	●	●		●	●	●							Flanges regeneration
Seats and shafts for rolling bearings	●	●●	●							●			Foundation of bridge bearings
Cracked bodies e.g. engines	●●	●●											Cylinder liners of marine engines
Sealing of welds	●●	●●			●								Ball mills: sticking of armours plates
Pipes and tanks leakage	●	●			●		●						Reconstruction of paper machine shafts
Heat exchangers: bottoms, heads, stub pipes, baffles	●	●●		●	●	●				●			Foundation of machines
Metal valves and gate valves				●	●	●					●		Concrete surfaces: foundations, tanks, sumps, floors
Pasting keys and bolts	●	●									●		Tracks on tanks in sewage treatment plants
Casting defects	●	●	●						●	●	●		Reconstruction of settings in concrete
Scratched pistons and engine cylinders								●				●	Rubber rotors and pump bodies
Slideways of lathes and milling machines								●				●	Rubber tanks and mixers
Screw propellers, Kort nozzles, bow thrusters				●	●							●	Belt conveyors
Rudder blades deposition	●	●			●							●	Rubber valves, gate valves
Seats and shafts for slide bearings								●				●	Rollers and rubber coated rollers
Hulls of ships, weirs	●	●		●								●	Chutes, hoppers
Bonding materials	●	●					●					●	Non-typical seals and rubber sealings

the highest quality is not a coincidence...

ADVANTAGES OF CHESTER REGENERATIVE MATERIALS

User friendly

- Proper texture for easy mixing and application.
- Various colours of base and reactor make it easy to evaluate of mixing accuracy.
- Application requires no special tools.

Convenience and safety

- They contain 100% of solids.
- They cure at room temperature.
- Long shelf life/storage period.

Reliability

- Extremely good adhesion to various surfaces.
- No shrinkage and stress on cure.
- Excellent resistance to chemicals, abrasion, cavitation and erosion.
- Excellent durability of repairs.

chester molecular®

IQNet THE INTERNATIONAL CERTIFICATION NETWORK
PL 170/2/2001

2007

GL Germanischer Lloyd

CERTIFICATE OF QUALITY SYSTEM PN-EN ISO 9001

Lloyd's Register

Chester Molecular Sp. z o.o.

ul. Krzywa 20B, 05-092 Łomianki
POLAND
tel. +48 22 751 28 06

info@chester.com.pl

www.chester.com.pl