



**Demech
Chemical**

Protect › Prevent › Prolong

A Turnkey Solution Provider
of Composite Coatings



About Us

Founded in 1993; Demech Chemical Products Pvt. Ltd. was formerly known as Demech Fel-Pro Pvt. Ltd.

Demech group of companies; well known in the field of Wear & Abrasion Resistant Engineering, formed this joint venture with Fel-Pro, USA who were having wide range of maintenance & repair products.

After Fel-Pro, USA changed their group ownership; Demech Chemical Products Pvt. Ltd. was incorporated.

Keeping in pace with dynamic business environment, Demech Chemical has been venturing into new technologies of high build polymer coatings with continuous improvement.

Our Vision

To become a leading global provider of speciality coatings and innovative technologies.

Core Values

- Entrepreneurship
- Competence and Reliability
- Simplicity
- Team orientation

Quality Policy

- Continual improvement in value addition.
- Endeavor for total customer satisfaction with respect to quality, timely delivery and reliability of our products and services.
- Unceasing enhancement with periodical reviews & revised performance standards in every aspect of our business.

Manufacturing Unit



Pipe Coatings Shop



Infrastructure

Our factory is built on sprawling Demech group campus of 20 acres which is located at industrial area of Baramati; 100kms away from Pune.

Apart from products' manufacturing, this premise is well equipped for lining of kilometers of pipelines in own shop with complete set up of Demech which has pipe rolling plant with automatic cutting, welding & flange making infrastructure.

Our manufacturing plant comprise of reactors, shearing & mixing equipments, attritors, sand mills etc. All products are manufactured under strict QC norms following international standards.

Our QC lab comprises of viscometers, UTM machine, abrasion resistance tester, hardness tester, spectro-photometer etc. Our in-house R & D lab is well equipped with paint shop and equipments like impact testing, salt spray, cathodic disbondment.

Our Products

- Glassflake Coatings
- Polyurethane Coatings
- Ceramic Coatings
- Protective Coatings
- Maintenance , Repair & Operation (MRO) Products
- Chemical Resistant Linings
- Flooring Products
- Maintenance & Repair Products For Civil Structures
- Crusher & Backing Compound Products

Services we offer on site and in our factory premises-

- Internal & external pipeline coatings
- Internal & external tank and vessel coatings
- Chemical resistant coatings
- Energy efficiency coatings
- Valves coatings
- Pump coatings
- Condenser & waterbox coatings
- Tank boot sealing and roof strengthening
- Scrubber coatings
- Insulation floorings
- Structural coatings
- Cooling tower coatings
- Clarifier coatings
- Digester coatings

Glassflake Coatings

Glassflake Products

Superglass™

Superglass™ series is a high build coating system in which laminar glass fillers are embedded in solvent free matrix of polyester resin offering an excellent resistance against atmospheric moisture penetration.

It's extremely low permeability, high abrasion and chemical resistance properties enhances life of various industrial equipments.

Applications :

- Internal pipelines and elbows
- Pumps
- Offshore structures
- Jetty piles and jacket legs
- Splash zones
- Riser pipes



Glassflake Coatings

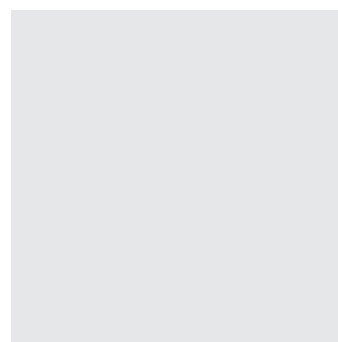


Chemglass®

Chemglass® series is a matrix of glassflakes and vinyl ester co-polymer. A 100% solvent less coating system offers excellent chemical and corrosion resistant properties. This high build system with heavy duty impermeable chemical resistant barrier is suitable for metal as well as concrete surface protection. The cured film is having excellent corrosion & chemical resistance and outstanding impermeability to protect the substrate from concentrated acid and alkali attacks in immersed conditions.

Applications:

- Pressure vessels
- Flue gas desulphurisation (FGD) lining
- Scrubber lining for flue gas
- Acid tank lining
- Brine and chemical tank lining
- Acid/Alkali splash & spillage zones



Koroglass™

Koroglass™ is glassflake reinforced in solvent free epoxy resin compound. These high performance epoxy coating systems are recommended for enhanced protection to metal and concrete against erosion, corrosion and mild chemical attack. This mechanically strong and tough coating has extremely low permeability with relatively high abrasion.

Applications:

- Internal pipelines & elbow
- Condenser tube plates and water boxes
- Pump casings / impeller
- Riser pipes and louvre plates.
- Offshore platforms
- Penstocks
- Structures in coastal area

High Build Elastomeric Polyurethane



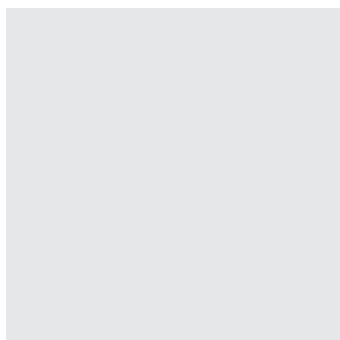
Polyurethane Coating

Polyguard

A solvent free two component 100% solids polyurethane coating system provides excellent anticorrosion. This fast curing system is a seamless system which is highly durable, abrasion resistant, has outstanding tensile strength, impact resistance and elongation with good resistance to mechanical and thermal shocks.

Applications:

- Sea water intake pipeline
- Buried tanks
- Underground pipelines
- Cooling tower basin

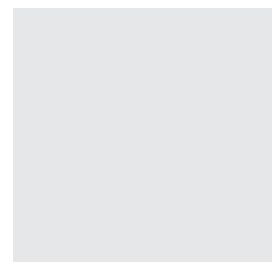


Hybrid Polyurea- Urethanes

In collaboration with KEMICA, France we bring a new generation technology of Hybrid Polyurea – Urethane products for high performance applications on metal / concrete. These coatings have excellent resistance to irradiations (upto 10^9 rads test by COGEMA) and can be readily applied over cold or damp substrates. These high build, fast setting elastomers provide excellent water and chloride permeability.

Applications:

- Digester roofs
- Coating of tanks storing nuclear muds and nuclear waste
- External and internal coating of pipes
- Structure exposed to steam and thermal cycles
- Resin storage tanks
- Turbine area flooring
- Offshore structures
- Containment / effluent tanks



Chemical Resistant Lining

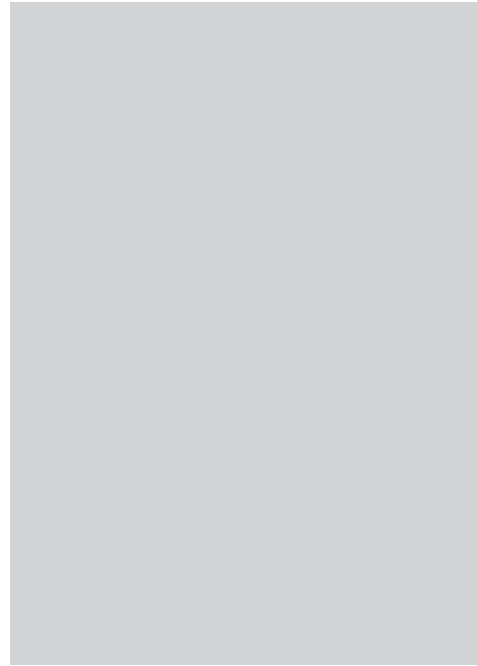


The composites made up from specialty polymers like vinyl esters and epoxy phenolic / novolac resins give excellent chemical resistance and are used extensively in industry to protect metallic as well as non-metallic surfaces. These long lasting seamless coatings eliminate failures at joints and enhance aesthetics of the assets. Unlike other liners, these monolithic liners can take any shape and cover complete area without any gaps.

Applications:

- Effluent treatment plants
- Neutralisation pit / drains/ trenches
- DM plant area
- Pedestals/ foundation
- Detergent and soda ash plant floors
- Floorings in petrochemicals / fertilizer plants
- Prilling tower & urea bagging plant
- Acid handling pump foundations
- Bulk acid tanks and floors
- Chemical storage dykes

Chemical Resistant Lining



Ceramic Coatings



Tuff Wear® Brushable Ceramic

Tuff Wear® Brushable Ceramic is ceramic reinforced 100% solid epoxy resin based coating which provides high gloss, low friction protection. This product is excellent for arresting bimetallic corrosion and abrasion resistance and is recommended for sealing and protecting equipments from corrosion & wear.

It also works as a top coat over Wear Resistant Putty/ Pneu Wear/ Wearing Compound for surface rebuilding and lasting protection.

Applications:

- Condenser / heat exchangers
- Internal coating of pipelines and elbows
- Pumps
- Impellers/ valves
- Ventilation fan coating
- Solids-catalyst transfer lines
- Electrostatic precipitators
- Co2 absorber



Lotus leaf effect on anti-stick ceramic

Maintenance Repair Operation (MRO) Products



Wear Resistant Products

Tuff Wear® Pneuwear

This product is made by a matrix of diamond hard ceramic beads and superior two part epoxies. This trowelable putty gives excellent protection against wear, abrasion and erosion caused due to fine particles. This easy to mix and use non shrinking compound renews worn surfaces fast and is ideal to work on uneven surfaces.

A **high temperature** version of this product is also available for protecting equipments from wear & erosion in high temperature zone.

Applications:

- Bends & chutes
- Cyclones & Classifiers
- Dust filters
- Pumps
- Hoppers
- Dust collectors
- Id fans & fan housing
- Vibratory feeder bowls
- Screw conveyors



Tuff Wear® Wearing Compound

Tuff Wear® Wearing Compound is a two component system designed to protect, rebuild and repair high wear areas of processing equipment due to large ceramic beads. It offers outstanding resistance to abrasion and erosion. This non sagging formulation is recommended for protecting and rebuilding heavy worn out parts. A **high temperature** version of this product is also available for protecting equipment from wear & erosion in high temperature zone.

Applications:

- Transport elbows and transition pieces
- Cyclone and separator bodies
- Dust collectors and exhausters
- Fan blades & housings
- Chutes
- Hoppers
- Launderers
- Scrubbers

Tuff Wear® Wear Resistant Putty

This extremely hard trowelable putty filled with ceramic fillers offer excellent wear and abrasion resistance for rotating or sliding parts. Provides a smooth finish for equipment subjected to wear due to erosion, cavitation & abrasion.

Applications:

- Cyclone separators
- Pump casings
- Impellers
- Condenser tube plates
- Wear plates
- Screw conveyor



Tuff Wear™ Ceramic Tile Adhesive

A high strength, two component non shrinking epoxy compound for installing ceramic tiles quickly and securely to vertical as well as horizontal applications. Excellent shock and impact resistance make it the ideal grout for ceramic tile.

This high-technology industrial compound has been specifically formulated to withstand application in the mining & engineering /manufacturing industries. It is non-sag and easy to use adhesive with good chemical resistance and tensile strength superior to concrete.

Applications:

- Bonding ceramic tiles
- Patch holes in pressure systems
- Secure vertical anchor bolts

Maintenance Repair Operation (MRO) Products



Metal Repair Compounds

Tuff Metal® Superior Metal

This two component 100% epoxy system having outstanding compressive strength is ideal solution for reclaiming or rebuilding surfaces requiring precision repairs. Surfaces which are subjected to critical wear factors can easily be repaired by this non rusting epoxy compound. This completely machinable mass is resistant to many chemicals, oil, gases and water and brings back the component in service in few hours.

Applications :

- Rebuilding of shafts, bearing housing, threaded parts
- Repairs of engine blocks, gears, pump casings
- Reclaiming surfaces requiring precision finish

Tuff Metal® Steel Putty

The workhorse of the cold welding products, this steel filled putty is recommended for making cost saving repairs on metal parts all over the plant. It is applied without special tools, heat or pressure. It bonds to metals, concrete, and wood. It can be machined, drilled, tapped with conventional metal working tools. This offers excellent resistance to oil, gases and many chemicals.

Applications:

- Sealing cracked in castings, tanks, vessels and valves
- Patching defects in steel parts
- Repairs/reclamation of metal parts.
- Filling cavity areas



Tuff Metal® Steel Liquid

Tuff Metal® Steel Liquid is a two part pourable epoxy system heavily reinforced with steel powder for casting parts or filling voids in hard to reach areas. Once hardened it can be machined, drilled, tapped or filed just like steel.

Applications :

- Filling/ leveling equipment
- Casting molds, parts and fixtures
- Pouring around loose anchor bolts
- Making metal forming dies



Tuff Metal® Aluminium Putty / Liquid

These are aluminium filled epoxy systems to rebuild and repair aluminium equipments, parts and castings. They have excellent bonding and non-rusting characteristics and can be machine, drilled and tapped. A liquid form is used to fill up castings into hard to reach areas.

Applications :

- Sealing cracked aluminium castings
- Patching defects in aluminium parts
- General repairs or reclamation of aluminium parts
- Filling cavity areas of aluminium castings



Maintenance Repair Operation (MRO) Products



Rubber Repair Products

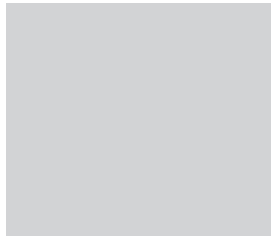
Flex 80 Putty / Liquid

This specially designed, 100% trowelable, tear resistant urethane compounds are used to repair equipment exposed to impact, abrasion, vibration, expansion and contraction.

These compounds cure to tough, medium hard rubber. Due to high elongation properties with excellent adhesion strength, it is ideal for repairing of rubber and urethane surfaces which are subjected to corrosion, wear and impact. Primers are recommended for maximum adhesion with steel and rubber.

Applications :

- Conveyor belt repairs
- Rubber liners, rubber roller repairs
- Pipe elbows
- Pump liners
- Vibratory feeder bowls



Leakage Arresting Products

Tuff Metal® Fast Cure Steel Putty

Fast Cure Steel Putty is steel reinforced, two part 100% epoxy system that sets within 4 minutes and cures within 10 minutes. It is applied without special tools, heat or pressure and can be machined, drilled, tapped with conventional metal working tools. This product offers excellent resistance to oil and gases and bonds to metals, concrete and wood.

Applications :

- Arresting online oil leakages from gear boxes/transformers
- Arresting gas leakages from pipelines/ gas holders
- Emergency repairs such as gas, air, water, oil leakages from turbine, pipes, tanks



High Performance Backing Compound

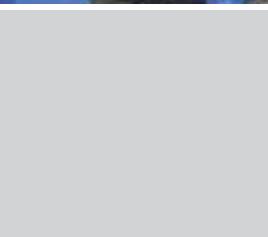
High Performance Backing Compound is a non-shrinking, 100% solids epoxy designed for backing wear plates in large gyratory crushers and 7 feet cone crushers. It has outstanding compressive strength and impact resistance.

Backing & Crusher Compound

Backing & Crusher Compound is a 100% solids two component epoxy system designed with excellent shock absorbing and tough flexible properties for cone crushers.

Locking Compound

Locking Compound is a 100% solids polymer compound, high temperature and high impact system for locking inner and outer eccentric bushing on cone crushers.



Protective Coating



Multiguard & Demoxy Series

These range of products are high build epoxy paints which provide good chemical resistance on all metals as well as concrete surfaces. The coated cured film offers excellent protection from corrosion and weather. The range of primers and mid-coats are suggested for maximum adhesion.

Applications

- External coating of tanks
- External coating of pipelines
- Coating of structures, beams, channels etc

Multiguard PU (UV Resistant) & Demothane

These range of products are high built polyurethane paints which are resistant to ultraviolet radiation. These polyurethane paints are recommended to apply on surfaces exposed to UV rays for anti-corrosive protection.

Applications

- Coating of tanks, structures, beams, channels, pipelines etc.



Koroguard®

Koroguard® is a specially developed epoxy based high performance anti-corrosive coating with good chemical resistance. The product is completely free from volatile ingredients and is suitable for variety of substrates like mild steel, alloy steel, cast iron, concrete etc. The specialty coating system when applied by brush or spray over the duly prepared metal/ concrete surface provides a long lasting anti-corrosive layer thus protecting same from corrosion and chemical attacks.

Applications

- Coating demineralized (DM) water tanks, molasses tanks, neutralization pits etc
- Gates submerged in water
- Coating of salt lagoon, salt spray tanks
- Coating of structural beams, channels, pipelines susceptible to corrosion due to moisture



Food Grade Coating



Koroguard® 20 (Food Grade)

Koroguard® 20 is a specially developed epoxy based high performance food grade coating with excellent chemical and abrasion resistance. The product is completely free from volatile ingredients and is suitable for variety of substrates like mild steel, alloy steel, cast iron, concrete etc. The specialty coatings' non taint and low Odor properties make it ideal for use in food manufacturing areas.

KOROGUARD® 20 has been certified by the WRAS, UK.

Applications

- Potable Water Carrying Pipelines/Storage tanks.
- Food Processing Plants
- Pharmaceuticals
- Beverage Production Plant
- Hospitals & Dairies

Flooring Products Series

Battery Room Floor

Battery room flooring is a 100% solvent free specially developed protective coating which creates heavy duty impermeable chemical resistant barrier. These seamless floorings offer excellent chemical resistance.

Applications

- Battery Room Floor



Polyurethane Floorings

This is a high performance 100% solid polyurethane self-leveling flooring product designed to exceed ever changing needs of industrial applications for seamless, hygienic and safe flooring.

Applications

- Chemical processing and storage dyke
- Food processing and manufacturing industries
- Warehousing flooring
- Cold storage rooms



Insulation Floor

Insulation flooring provides an extremely hard electrical insulating seamless floor coating surface. It can be applied directly on the primed prepared epoxy substrate or on screed.

Applications

- Control rooms
- Electronic industry assembly lines
- Hydraulic testing rooms



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