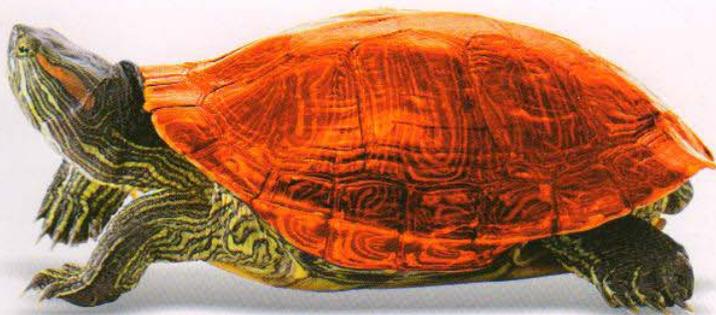


DEMECH
CHEMICAL

| Oil & Gas | Petrochemical | Chemical | Power | Steel | Fertiliser | Water & Waste Water Treatment | Marine |

YOUR PLANT NOW HAS SHIELD
AGAINST CORROSION



HIGH PERFORMANCE SPECIALITY COATINGS



DEMECH CHEMICAL

Demtech Chemical is engaged in providing products and long-term solutions to Industries particularly in Core Sector for prevention of erosion and corrosion of equipment, pumps, pipelines, tanks, vessels, structures and flooring'.

Demtech Chemical started operations in 1993 in collaboration with Felpro of USA, offering metal repair and maintenance products & wear and abrasion resistant compounds. With continuous investment in research and development the Company has enlarged its product range, which now includes high performance speciality coatings, industrial flooring, grouting, crusher compounds and oil absorbent products.

Demtech Chemical services a wide range of Industries, including Power generation, Steel, Mining, Marine, Cement, Paper, Petrochemicals, Oil and Gas, Fertilisers and Chemicals, Sugar and Water & Waste water treatment.

Corrosion and wear/abrasion pose a threat to many Industries, leading to shut downs, efficiency decline, increase in energy and maintenance costs and safety hazards. Demtech Chemical has developed high performance speciality coatings such as glass flake filled

coatings which provide long term preventive solutions for these threats.

Demtech Chemical has recently entered into collaboration with KEMICA of France who are leaders in the field of high performance Polyurethane and Polyurea-urethane resins for applications on concrete and steel for any corrosion, flooring or water proofing problem.

Demtech Chemical provides total solution, right from diagnosing the problem, to recommending the solution, providing the right product and more importantly application of the product to the satisfaction of the Customer.

Demtech Chemical has state of the art ISO 9001-2008 Certified manufacturing facility at Baramati near Pune .

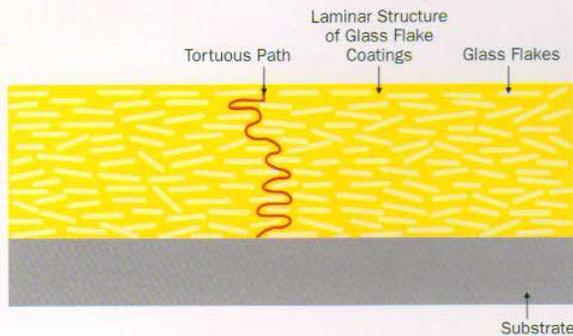
Demtech Chemical's parent company Deccan Mechanical and Chemical Industries Pvt. Ltd is a market leader in the field of engineering products and services including Ash handling systems, Material handling equipments, Wear and abrasion resistant products, Spirally welded steel pipes, and Industrial safety footwear.

Glass Flake Coatings

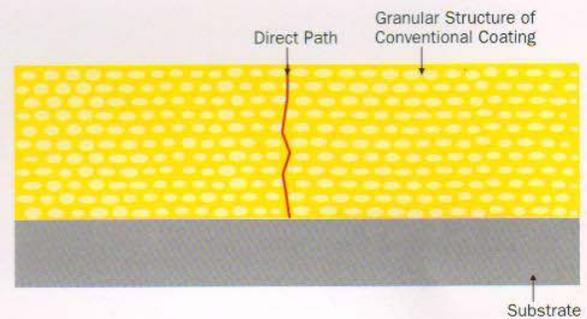
The Principle :

The principle of Glass Flake coating system lies in providing laminar glass fillers with tortuous path through the resin binder, so that the corrosive ions travelling through the binder have to travel a much longer distance. The distance travelled will depend upon the thickness of the flakes and the number of layers of glass flakes in a given coating.

Tortuous Path of Glass Flake Coatings



Direct Path in Conventional Coatings



Energy Efficient Coatings

We offer different grades of these special coating systems which provide tortuous path in order to protect the substrate from attack of corrosive environment. All these speciality coating systems designed by us are with 100% solids which means absence of volatile substances, so that the deposited coating remains intact during the curing process.

The Features :

- Tortuous path
- Glass flakes provide a tough impermeable barrier suitable for steel and concrete surfaces
- Low lateral shrinkage during cure
- High substrate / coating bond strength
- Extremely good resistance to under cutting, long term protection with longer maintenance-free life
- High abrasion resistance
- Composite dimensional stability
- Good resistance to cathodic disbonding
- Excellent resistance to severe corrosive and abrasive environments
- Co-efficient of thermal expansion is similar to low carbon steel
- Excellent resistance to Salt spray test



Koroglass

Koroglass series is a glass flake reinforced system in which laminar glass fillers are embedded in solvent free matrix of Epoxy resin. This high performance epoxy coating systems are recommended for enhanced protection to metal and concrete against erosion, corrosion and attack of chemicals. Its extremely low permeability with relatively high abrasion and chemical resistance helps to protect various industrial equipments like pumps, pipes, tanks, vessels, structures etc.

Range :

- Koroglass 100
- Koroglass 200
- Koroglass 1000
- Koroglass FG
- Koroguard GF

Applications :

- Pump castings / Impeller
- Cooling tower header
- Tanks & Vessels
- Internal & External surface of pipeline
- Condenser Tube plates & Water boxes
- Offshore platforms
- Penstocks

Typical Properties

Thickness for 2 coats	500 - 1000 microns
Coverage for single coat	1 - 1.5 m ² /Kg
Temperature Resistance (Dry Condition)	110°C
Working time for 100 gms at R.T.	40 - 45 minutes
Hardness Shore D	85
Chemical Resistance	Passes ASTM D 6943

Chemglass

Chemglass series is a matrix of Glass flakes and vinyl ester co-polymer 100% solventless coating systems which offers excellent chemical and corrosion resistance properties. This three component high build system with heavy duty impermeable chemical resistant barrier is suitable for metal and concrete surface protection. The cured film is having excellent corrosion resistance, highly impermeable to protect the substrate from concentrated Acid/Alkali attacks in immersed conditions.

Typical Properties

Thickness for 2 coats	250 - 500 microns
Coverage for single coat	2 - 3.0 m ² /Kg
Temperature Resistance (Dry Condition)	120°C
Working time for 100 gms at R.T.	15 - 18 minutes
Hardness Shore D	80
Chemical Resistance	Passes ASTM D 6943

Range :

- Chemglass 150
- Chemglass 1000
- Chemglass FG
- Chemguard GF

Applications :

- Structures subjected to attack of concentrated Acid/Alkali solutions
- Pressure Vessels
- Brine and Chemical Tank Lining
- Acid/Alkali splash & Spillage
- Mineral processing Industries
- Internal Surface of Chimney
- Scrubber lining for Flue Gas
- Acid Tank Lining
- Battery room coating





Superglass

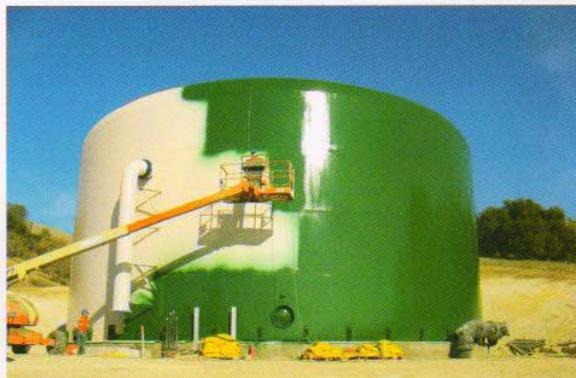
SUPERGLASS series is high build coating system in which laminar glass fillers are embedded in solvent free matrix of polyester resin offering an excellent resistance against atmospheric moisture penetration. Its extremely low permeability, high abrasion and chemical resistance properties protects various industrial equipments like pump casings, impellers, pipe bends, stirrers and diffuser drums from corrosive conditions.

Range :

- Superglass 1000

Applications :

- Splash zones
- Decks, Sheet Piles,
- Jetty Piles and Jacket Legs
- Offshore structure.
- Escape routes
- Heavy duty marine applications
- Lining of waste water foulds & tanks



Typical Properties	
Thickness for 2 coats	150 - 350 microns
Coverage for single coat	2.0 - 3.0 m ² /Kg
Temperature Resistance (Dry Condition)	120°C
Working time for 100 gms at R.T.	25 - 30 minutes
Hardness Shore D	80
Chemical Resistance	Passes ASTM D 6943

Hybrid Polyurea – Urethane

In technical collaboration with KEMICA - France, we bring a new generation technology of Hybrid Polyurea - Urethane products, for High performance applications on Metal / Concrete.

Hybrid Polyurea - Urethane is a high-build, fast-set, elastomers provide significant protection to various metal/steel, concrete.

Fast reaction time Hybrid Polyurea - Urethanes, do not easily react with humidity and moisture in substrates, so the material can be readily applied over cold or damp substrates.

Typical Application areas :

- Coating of tanks storing Nuclear muds or Nuclear waste
- Nuclear pool coating
- Laboratories areas in Nuclear industry
- External and Internal coating of pipes
- Walls, ceiling and floors
- Ion exchange resin storage area
- Chemical and strong metal storage tank
- Turbine area flooring
- Offshore structures
- Water proofing of tunnels and sewers, structures on sea coast, submerged pipelines etc.
- Containment / Effluent tanks

Advantages :

- Solvent less coating
- Very easily decontaminable (Upto 99% - Test of CEA)
- Excellent resistance to irradiations (up to 10^8 rads Test of COGEMA)
- Can be applied up to 25mm thickness
- Excellent concrete crack bridging ability
- Strong bonding on any substrate including stainless steel
- Excellent resistance to thermal shocks (-50°C , $+200^{\circ}\text{C}$)
- Resistant to various chemical (pH 1 to 13)
- Provide waterproof seamless membrane
- Direct application on metal / concrete substrate, primers may not be required
- Excellent water and chloride permeability



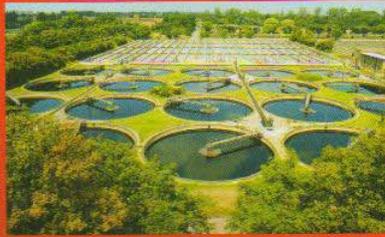
Applications :

Nuclear Industry :



- Reactor Building
- Nuclear Pool
- Nuclear Waste Storage Tanks
- Water Proofing of Nuclear Containers
- Pipes
- Cooling Towers

Water Treatment Plants



Oil and Gas, Petroleum Industry



Marine Industry



Steel Industry



General Applications :

- External and Internal coating of pipes
- Storage area / vessels
- Turbine area flooring
- Water Proofing of tunnels & Sewers
- Structures on sea coast, submerged pipelines
- Off shore structures

Sr. No.	Product	Specific Gravity (Gm/cc)	Hardness ASTM D2240	Compressive strength ASTM D695 (Kg/cm ²)	Key Features
1	Souplethane N5	1.3	Shore A 95	1130	Decontaminable and resistance to irradiation, Can bridge the cracks upto 2mm wide
2	Souplethane N6	1.3	Shore A 95	1130	Fast Curing, Decontaminable and resistance to irradiation, Can bridge the cracks upto 2mm wide
3	Souplethane 5	1.3	Shore A 95	1130	Waterproof coating without holidays, good resistance to mechanical shocks, can be applied on damp surface
4	Souplethane 6	1.3	Shore A 95	1130	Fast curing, waterproof coating, applied with geotextiles, single coat 5mm DFT
5	Souplethane 6 sp	1.34	Shore D 70	1080	Fast Cure coating, External / Internal coating of buried and submerged pipelines, Excellent performance in sea environment
6	Souplethane UR 5	1.4	Shore D 75	1200	High chemical resistance, Acid, Alkalies and Solvents can be applied without primer
7	Souplethane UR 6	1.4	Shore D 75	1200	Fast Curing corrosion resistant coating for strong acid / alkalies, excellent performance in immerse conditions, Acid, Alkalies and Solvents, can be applied without primer
8	Souplethane 5 COR	1.1	Shore D 72	1130	Good corrosion resistant properties with conc. Acid, Alkalies and Solvents, can be applied without primer
9	Souplethane 6 COR	1.1	Shore D 72	1080	Fast curing corrosion resistant coating Excellent performance in marine condition as immersed in sea water structures & tanks
10	Souplethane 5FA	1.1	Shore D 70	1130	Internal coating of concrete / steel substrate, storage tanks for potable water. CRC-CEP 100 D grade approved.
11	Souplethane 5Cor FRB M1	1.1	Shore D 72	1130	High Build, Flame retardant, corrosion resistant coating, passing CSTB-European Std. of flame retardancy. Can be applied without primer.



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