chembond®
Material Technologies

Structural Coatings

chembond
Material Technologies

Chembond Material Technologies offers innovative & value delivering solutions to industrial customers in the areas of surface treatment, bonding & sealing & coatings. The foundation of Chembond Material Technologies Private Limited is based on offering products & services that will add value to our customer's processes & finished products. The core businesses & development is focussed on surface treatments, industrial coatings, lubricants, adhesives & sealants. Chembond has been in the business of high performance anti-corrosive industrial coatings & industrial floorings since 1994. We design systems especially to suit tropical & high demanding industrial environment such as marine environments, process industries, steel plants, power plants, pharma, electronics, etc. We offer the best solutions in corrosion protection & thereby preserve the value of our client's investment. With modern production facilities at Tarapur, Vadodara, Navi Mumbai, Ranipet, & Baddi, conforming to the highest standards of ISO 9001, ISO 14000, TS 16949, & OHSAS 18001, Chembond is a preferred choice company that is able to serve customers better & faster.

High Performance Coatings

High performance coatings are types of coating systems that offer an excellent method of maintaining & preserving the integrity of the surface. Their physical, mechanical & chemical properties can improve corrosion protection, adhesion, cathodic disbondment & impact resistance.

KemThane 426
Features: Very fast setting polyurethane elestomeric coating
Advantage: Solvent free, 100% solids, easy application, low re-coating intervals, excellent corrosion & abrasion resistance & low maintenance
Intended uses: In marine & offshore installations, tank coating for chemicals, waste water treatment plant & sewage plants.

KemOxy 513 EPN
Features: High build, epoxy novalac coating
Advantage: Highly cross linked, excellent heat & chemical resistance
Intended uses: As primer & top coat in severely corrosive environment.

KemOxy 5001
Features: Epoxy based glass flake primer
Advantage: 100% solids, VOC free, good adhesion & clear coat
Intended uses: Primer for glass flake epoxy coating system offshore structures, refineries, petrochemical & chemical units.

KemFire 208
Features: Acrylic based intumescent coating
Advantage: One component, high build & quick drying
Intended uses: Beams, columns, hollow sections, industrial structures, airports, malls, metro stations, wooden articles & concrete structures.

KemFire 209
Features: Epoxy based intumescent coating
Advantage: High build, solvent based, high solid intumescent coating tested to access fire protection performance on structural steel work
Intended uses: Beams, columns, hollow sections, industrial structures, airports, malls, metro stations, wooden articles & concrete structures.

KemGuard 250 HR
Features: Heat resistant aluminum coating
Advantage: Extensive range of application, easy application & metallic
Intended uses: Chimneys, boilers, exhaust systems & also in areas exposed to dry heat.

KemOxy 300 Clear
Features: Epoxy based clear coating
Advantage: Fast drying, ease of application
Intended uses: Protective clear coat on coated or uncoated surfaces.

KemOxy 5012
Features: Superior glass flake epoxy top coat
Advantage: High solid, solvent free, glass reinforced high abrasions & chemical resistance
Intended uses: Offshore platforms, drilling rigs, refineries, thermal power station & atomic power plants.

KemPolyurea 5556
Features: Elastomeric polyurea
Advantage: Fast to handle, set in 5 seconds, corrosion protection, excellent abrasion resistance, No VOC, flexible & cures in low temperature
Intended uses: Food processing plants, cold storage, waste water treatment, industrial facilities, airport hangers, water reservoirs, etc.

KemElastomer P
Features: Solvent free elastomeric primer
Advantage: Fast setting & easy application
Intended uses: Used as a primer for polyurea & PU products.

KemOxy 313 FG
Features: Food grade epoxy top coating
Advantage: High build, approved for food grade, low VOC & solvent free
Intended uses: Internal tank lining potable water, food chemicals & edible oils.

KemThane 426X
Features: Brushable polyurethane elestomeric coating
Advantage: Solvent free, 100% solids, easy application, low re-coating intervals, excellent corrosion & abrasion resistance & low maintenance
Intended uses: Marine & offshore installations, tank coating for chemicals, waste water treatment plant, sewage plants with 3:1 by brush.

KemGuard 450 HR
Features: Heat resistant aluminum coating
Advantage: One pack, fast drying, & metallic
Intended uses: Chimneys, boilers & exhaust systems & also in areas exposed to dry heat.

KemGuard 600 HR
Features: Heat resistant aluminum coating
Advantage: Heat resistance & metallic
Intended uses: Chimneys, boilers, exhaust systems & furnaces.

chembond
Material Technologies

KemGuard 555 HB

Features: Aromatic amine cured self priming rust tolerant high build epoxy
Advantage: Low VOC, high solids, amine cured , chemical resistance
Intended Uses: Offshore platforms, drilling rigs, refineries, thermal power stations, atomic power plants & as internal coating in solvent storage tanks.

KemGuard 556 HB

Features: Aliphatic amine cured self priming rust tolerant very high build epoxy
Advantage: Low VOC, high solids, high build film in a single coat
Intended uses: Offshore platforms, drilling rigs, refineries, thermal power stations, atomic power plants, solvent storage tanks, humid areas & in areas of extreme temperature variations, etc.

KemGuard 555 XL

Features: Self priming, rust tolerant, high build polyamide cured epoxy
Advantage: High build, excellent bonding, semi glossy & chemical resistance
Intended Uses: Offshore platforms & drilling rigs refineries, thermal power station, atomic power plants, as internal coating in solvent storage tanks, humid areas, in areas of extreme temperature variations, etc.

KemGuard 559 HB

Features: Self priming rust tolerant high build coal tar epoxy
Advantage: High build, semi-glossy, good corrosion & water resistance
Intended Uses: Offshore platforms & drilling rigs refineries, thermal power station, atomic power plants, as internal coating in solvent storage tanks, humid areas, in areas of extreme temperature variations, etc.

Product	Components	Generic Type	Volume Solids in %	Suggested DFT in µ	Theoretical Covering Capacity in m^2/ L
KemThane 426	2 K	Elastomeric Top Coat	100	500-2000	0.5-2.0
KemOxy 513 EPN	2 K	Epoxy Novolac Coating	80	100-125	4.0-5.0
KemOxy 5001	2 K	Glass Flake Primer	98	75-100	9.5-13.0
KemOxy 5012	2 K	Glass Flake Top Coat	98	200-300	3.2-5.0
KemPolyurea 5556	2 K	Polyurea Coating	100	1000-5000	0.2-1.0
KemElastomer P	2 K	Elastomeric Primer	100	100-150	6.7-10.0
KemFire 208	1 K	Acrylic Intumescent Coating	70	300-700	1.0-2.3
KemFire 209	2 K	Epoxy Intumescent Coating	83	750-1000	0.8-1.1
KemGuard 250 HR	2 K	Synthetic Heat Resistant Coating	40	15-25	16.0-26.7
KemOxy 300 Clear	2 K	Epoxy Clear	49	25-30	16.0-19.0
KemOxy 313 FG	2 K	Food Grade Epoxy	100	300-400	2.5-3.3
KemGuard 450 HR	1 K	Silicon Acrylic Heat Resistant Coating	31	20-30	10.3-15.5
KemGuard 600 HR	1 K	Silicon Heat Resistant Coating	30	20-30	10.0-15.0
KemGuard 555 HB	2 K	Surface Tolerant Amine Cured	94	75-100	9.4-12.5
KemGuard 555 XL	2 K	Surface Tolerant Polyamide Cured	87	100-125	6.9-9.0
KemGuard 556 HB	2 K	Surface Tolerant High DFT	95	250-300	3.1-4.0
KemGuard 559 HB	2 K	Coal Tar Based Surface Tolerant	75	100-125	6.0-7.5

chembond®
Material Technologies

Primers

A primer or undercoat is a preparatory coating put on materials before painting. Priming ensures better adhesion of paint to the surface, increases paint durability & provides additional protection for the material being painted.

KemOxy 301
Features: General purpose zinc phosphate epoxy primer
Advantage: Fast drying & handling
Intended uses: Anti-corrosive primer protective coating application in marine, power plants, refineries, offshore structure, petrochemicals, bridges, equipments, machinery, storage tanks & pipelines, etc.

KemOxy 305
Features: Zinc rich epoxy shop primer
Advantage: Fast drying primer for aggressive environment & fast drying.
Intended Uses: Steel structures, power plants, refineries, offshore structures, bridges, docks, equipments, storage tanks & pipelines.

KemOxy 307
Features: Zinc phosphate epoxy primer
Advantage: Fast drying & handling
Intended uses: Anti-corrosive priming coat barrier in areas of aggressive corrosive conditions.

KemOxy 309
Features: Epoxy phenolic primer
Advantage: Good chemical & heat resistance, fast drying
Intended uses: Marine & corrosive environment such as power plants, refineries, offshore structures, petrochemicals, bridges, docks, etc.

KemThane 401
Features: Polyurethane based primer
Advantage: Fast drying , ease of application , short recoatable time
Intended uses: Steel structure, power plants, refineries, offshore structure, petrochemicals, bridges, dock, equipments, machinery, storage tanks & pipelines, etc.

KemGuard 501
Features: Inorganic zinc silicate primer
Advantage: Galvanic corrosion protection, fast curing, 80 % zinc on DFM
Intended Uses: Storage tanks, pipe work, offshore areas, structural steel work, humid areas & in areas of extreme temperature variation.

KemEtch Primer
Features: Solvent based etch primer
Advantage: Good anti-corrosive, easy application & fast setting
Intended uses: Primer on non ferrous metals such as GI, aluminum, bus body & chassis.

KemChlor 201
Features: Air drying chlorinated rubber primer
Advantage: Quick drying, anti corrosive & easy application
Intended uses: Chemical plants, iron & steel mills, food processing plants & structures, etc.

Product	Components	Generic Type	Volume Solids in %	Suggested DFT in µ	Theoretical Covering Capacity in m^2/ L
KemOxy 301	2 K	Epoxy Zinc Phosphate Primer	52	40-50	10.4-13.0
KemOxy 305	2 K	Epoxy Zinc Rich Primer	40	30-50	8.0-13.3
KemOxy 307	2 K	Epoxy Zinc Phosphate Primer For 12944	63	50-75	8.4-12.6
KemOxy 309	2 K	Epoxy Phenolic Primer / Intermediate	57	50-100	6.0-11.4
KemThane 401	2 K	Acrylic PU Primer	45	25-35	13.0-18.0
KemGuard 501	2 K	Zinc Silicate Primer	58	50-75	7.7-12.0
KemEtch Primer	2 K	Etch Primer	10	6 -8	12.5-16.5
KemChlor 201	1 K	Chlorinated Rubber Primer	45	30-50	9.0-14.7

Intermediate Coatings

Intermediate coats are applied to 'build' the total film thickness of the system. Generally, the thicker the coating the longer the life. Intermediate coats are specially designed to enhance the overall protection & when highly pigmented, decrease permeability to oxygen & water.

KemOxy 321 MIO
Features: High build epoxy MIO coating
Advantage: Chemical resistance & high film build
Intended uses: Steel structures, power plants, refineries, offshore structure, petrochemicals, bridges, dock, equipments, machinery, storage tanks & pipelines.

KemOxy 323 HB
Features: High build epoxy MIO coating
Advantage: Designed for 12944 system, high solid high build intermediate coat & long term over coating property
Intended uses: Offshore structures, petrochemical plants, pumps & paper mills.

KemOxy 324 HB
Features: High build epoxy intermediate coating / top coating
Advantage: High build, wide colour range, & matte finish
Intended uses: Steel structures, power plants, refineries, offshore structures, petrochemicals, bridges, docks, equipments, machineries, storage tanks & pipelines.

KemOxy 327
Features: Epoxy intermediate coating
Advantage: Designed for 12944 system & high solid high build intermediate coat
Intended uses: On steel structures, power plants, refineries, offshore structures, petrochemicals, bridges, docks, equipments & machineries.

Product	Components	Generic Type	Volume Solids in %	Suggested DFT in µ	Theoretical Covering Capacity in m^2/ L
KemOxy 321 MIO	2 K	Epoxy MIO Intermediate Coating	53	75-100	5.3-7.0
KemOxy 323 HB	2 K	Epoxy MIO Intermediate For 12944	65	100-150	4.3-6.5
KemOxy 324 HB	2 K	Epoxy HB Intermediate Coating	58	100-125	4.6-5.8
KemOxy 327 HB	2 K	Epoxy HB Intermediate For 12944	63	100-150	4.2-6.3

Top Coats

The top coat provides the required appearance & surface resistance of the system. Depending on the conditions of exposure, it must also provide the first line of defense against weather & sunlight, open exposure & condensation.

KemOxy 311

Features: Epoxy top coat
Advantage: Glossy, wide color range & aesthetic
Intended uses: In steel structures, power plants, refineries, offshore structures, petrochemicals, bridges, docks, equipments, machineries, storage tanks & pipelines.

KemOxy 325 HB

Features: High build epoxy intermediate coating / top coat
Advantage: High build, amine cured, better resistance
Intended uses: Steel structures, power plants, refineries, offshore structures, petrochemicals, bridges, docks, storage tanks & pipelines.

KemThane 411

Features: Acrylic aliphatic polyurethane top coat
Advantage: High performance, provides & retains good gloss, non yellowing & quick drying. Suitable for heavy duty application
Intended uses: Steel structure, power plants, refineries, offshore structure, petrochemicals, bridges, dock, equipments, machinery, storage tanks & pipelines.

KemThane 415

Features: Acrylic aliphatic polyurethane top coat
Advantage: High solid, quick drying, gloss retention & non yellowing
Intended uses: Steel structure, power plants, refineries, offshore structure, petrochemicals, bridges, dock, equipments, machinery, storage tanks & pipelines, etc.

KemOxy 512 EPN

Features: High build epoxy novalac coat
Advantage: Better heat resistance & good chemical resistance
Intended uses: Tank lining, chemical plants, area prilling tower, petrochemical units, storage tanks & pipelines, etc.

KemChlor 211

Features: Air drying chlorinated rubber top coat
Advantage: Quick drying, anti corrosive, easy application, wide color range and resistance to splash of mild chemicals
Intended uses: Chemical plants, iron & steel mills, food processing plants & structures, etc.

Product	Components	Generic Type	Volume Solids in %	Suggested DFT in µ	Theoretical Covering Capacity in m^2/ L
KemOxy 311	2 K	Epoxy Glossy Top Coat	50	25-50	10.0-20.0
KemOxy 325 HB	2 K	Epoxy HB Matte Top Coat	55	100-125	4.4-5.5
KemThane 411	2 K	Acrylic PU Glossy Top Coat	40	25-35	11.4-16.0
KemThane 415	2 K	High Solid Acrylic PU Top Coat	55	50-75	7.30-11.0
KemOxy 512 EPN	2 K	Epoxy Phenolic Semi-glossy	70	100-125	5.6-7.0
KemChlor 211	1 K	Chlorinated Rubber Semi-glossy Top Coat	38	30-50	7.6-12.6

chembond
Material Technologies

Miscellaneous Coatings

KemSeal 200
Features: General purpose sealant
Advantage: To seal the pores in concrete & structures
Intended uses: General purpose sealant used on concrete & steel surface in protective coating system.

KemOxy 331 Rebar
Features: Anti corrosive coating for reinforcement steel
Advantage: Surface wetting, corrosion resistance & water resistance
Intended uses: As protection of rebar in aggressive coastal & industrial atmosphere for piles, structure of bridges, flyovers, Jetty, etc.

KemThane 400 Clear
Features: Polyurethane clear lacquer top coating
Advantage: Low viscosity, high gloss, quick drying & non yellowing
Intended uses: Concrete wall, waterproofing, & glaze on equipments, etc.

KemOxy 314 HB
Features: Economical high build coal tar epoxy
Advantage: Surface wetting, corrosion & water resistance
Intended uses: It is used in area such as pipe lines, buried pipe lines, water tanks, underground tanks & structures.

KemGuard 588
Features: Bitumen based coating
Advantage: Suitable for wide variety of surfaces as MS, concrete, wood
Intended uses: Water pipelines, building basement & air conditioning ductings & drinking water tanks.

KemGuard 811
Features: Water based acrylic based wall coating
Advantage: Eco friendly, easy application, anti fungal & anti bacterial
Intended uses: Clean rooms in pharmaceutical industries, hospitals, hotels, dairies & kitchens, food processing plants & bottling plants .

Product	Components	Generic Type	Volume Solids in %	Suggested DFT in µ	Theoretical Covering Capacity in m^2/ L
Kem Seal 200	2 K	Epoxy Putty For Polyurea / Polyurethane	98		
KemOxy 314 HB	2 K	Coal Tar Epoxy Coating	58	100-125	4.6-5.8
KemOxy 331 Rebar	2 K	Epoxy Rebar Coating	48	40-50	9.6-12.0
KemThane 400 Clear	2 K	Acrylic Polyurethane Clear	35	15-25	14.0-23.3
KemGuard 588	1 K	Bituminous Black Coating	37	20-30	12.3-18.5
KemGuard 811	1 K	Antifungal Wall Coating	42	30-40	10.5-14.0

Notes

Chembond Material Technologies

METAL TREATMENT CHEMICALS

ENGINEERING ADHESIVES

INDUSTRIAL COATINGS

PAINT BOOTH SOLUTIONS

AUTOMOTIVE SEALANTS

MRO PRODUCTS

2112020

chembond® Material Technologies

Chembond Material Technologies Private Limited

Chembond Centre, EL-71 Mahape MIDC, Navi Mumbai 400 710, INDIA.

Tel.: +91 22 6264 3000 Fax: +91 22 2768 1294

E: info@chembondmaterialtechnologies.com • U: www.chembondmatech.com