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Material Technologies

Floor Coatings

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Chembond Material Technologies offers innovative and value delivering solutions to industrial customers in the areas of surface treatment, bonding and sealing and coatings. The foundation of Chembond Material Technologies Private Limited is based on offering products and services that will add value to our customer's processes and finished products. The core businesses and development is focussed on surface treatments, industrial coatings, lubricants, adhesives and sealants. Chembond has been in the business of high performance anti-corrosive industrial coatings and industrial floorings since 1994. We design systems especially to suit tropical and 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 and thereby preserve the value of our client's investment.

Primers & Cleaners

Primers are thin seal coatings that provide better adhesion because they are designed to penetrate into the concrete substrate for a better bonding.

KemOxy Concrete P
Features: Excellent penetrating property on concrete surface, very thin, excellent bonding
Advantage: Easy to apply on porous non porous surface, fast setting.
Intended Uses: Priming of concrete surface providing good surface for subsequent coats.

KemOxy Concrete AS
Features: High electrical conductivity, excellent bonding on concrete surface Forms electrostatic charge layer to improve conductivity
Advantage: Provides excellent conductive base over copper tape for subsequent conductive top coating.
Intended Uses: Recommended for server room, electronic industries, area subjected to high explosion risk.

KemOxy Concrete W
Features: Solvent free, odourless , water based penetrating primer on surface having some moisture content
Advantage: Ease of application, longer working time, recommended on green concrete.
Intended Uses: Priming of uncured concrete surface having moisture, provides excellent bonding to other coats on all types of industries.

Chembond Floor Oil Remover
Features: Ready to use cleaners for rapid release of oil from concrete surface, heavy duty disinfects & cleans rapidly
Advantage: Easy to use, just mix in water & clean the surface.
Intended Uses: Garages, car parking area, manufacturing area. Commercial, industrial & institutional premises.

Chembond Industrial Floor Cleaner
Features: Excellent cleaning property, cleans oil contaminated floor easily, reduces operating time & cost effective
Advantage: Ease of application, safe, provides surface for subsequent coats.
Intended Uses: Garages, car parking area, manufacturing area. Commercial, industrial & institutional premises.

KemOxy Concrete OL
Features: Excellent bonding on prepared oil contaminated floor, low viscosity, penetrating
Advantage: Longer working time, recommended on oil contaminated concrete.
Intended Uses: Production area, manufacturing area, stores, garages & also used as dust free sealer.

Sr. No.	Product	Product Description & Usages	Packs	Base	Thickness in mm	Pack Size kg
1	KemOxy Concrete P	Solvent based, low viscosity penetrating primer for priming concrete substrate	2	Epoxy	0.10	14 & 28
2	KemOxy Concrete AS	Solvent based, electrostatically conductive primer ideal for antistatic floor coating	2	Epoxy	0.15	4
3	KemOxy Concrete W	Water based primer for priming green concrete substrate	3	WB Epoxy	0.10	7 & 14
4	Chembond Industrial floor cleaner	Highly effective ready to use cleaner for rapid release of oil from contaminated surface	1	Neutral	N/A	2 L & 5 L
5	Chembond floor oil remover	Aqueous cleaner & degreaser for oil contaminated surface	1	Alkaline	N/A	25
6	KemOxy Concrete OL	Solvent based oil tolerant primer for oil contaminated floors	2	Epoxy	0.10	15

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Screeds / Mortars

Screeds are highly filled resin based product when applied on primer concrete surface gives high strength that can withstand high loading wear resistance.

KemFlor 520

Features: Epoxy repair mortar
Advantage: It is used to repair potholes & fill construction joints, as base for coving, as leveling base under different epoxy flooring system.
Intended Uses: Pharma, engineering, steel, packaging, electronics, food, hospital & other industries, as workshop, storage breweries.

KemFlor 521

Features: Medium to heavy duty, 2mm self leveling, epoxy screed
Advantage: Ready to use self leveling, good flow, smooth finish, high compressive strength, high bond strength, good abrasion resistance.
Intended Uses: Pharma, engineering, steel, packaging, electronics, food, hospital & other industries, as workshop, storage breweries.

KemFlor 525

Features: Medium duty, 1mm self leveling, epoxy screed
Advantage: Ready to use self leveling, good flow, smooth finish, high compressive strength, high bond strength, good abrasion resistance.
Intended Uses: Pharma, engineering, steel, packaging, electronics, food, hospital & other industries, requiring resistance to mechanical wear in areas as workshop, slorase breweries.

KemFlor 526 HS

Features: Epoxy polyurethane based screed, tolerates oil contamination
Advantage: High strength, recommended on oil contaminated surface, self leveling property, high flexural & compressive strengths.
Intended Uses: Engineering, garages, manufacturing units, warehouses requiring tolerance to oil contamination.

KemFlor 527

Features: Epoxy modified cementitious screed medisturt tolerant
Advantage: Water based, solvent free, odorless, can be overcoated, can be applied on green concrete after 24 hrs.
Intended Uses: Food & beverage plants, pharmaceutical & cosmetic plants, machine-shops & warehouses, loading ramps & other areas.

KemSeal 400 PU

Features: Room temperature setting PU sealant for providing permanent seal
Advantage: Easy to mix, ease of application, flexible, solvent less, 100 % solid & good flow.
Intended Uses: Sealing of expansion, contraction & construction joints in building structures, on concrete & most of building material good flexibility.

Sr. No.	Product	Packs	Base	Thickness in mm	Pack Size kg	Compressive Strength N/mm²	Tensile Strength N/mm²	Flexural Strength N/mm²	Shore D	Pot life min @ 30°C
1	KemFlor 520	3	Epoxy	2.20	63 & 252	92	12.00	25	83	30
2	KemFlor 521	3	Epoxy	2.00	21 & 84	56	19.50	34	62	30
3	KemFlor 525	3	Epoxy	1.00	17 & 68	52	19.00	30	60	30
4	KemFlor 526 HS	3	EPU	2.00	76	82	19.50	31	83	30
5	KemFlor 527	3	Epoxy	2.00	41	50	16.50	12	78	30
6	KemSeal 400 PU	3	PU	1.00- 5.00	13	55	19.00	22	45	30

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Top Coats

Flooring Top Coat offer an array of interior floor solutions when an affordable hard wearing non-slip finish is needed. Flooring Top Coat can turn an old concrete slab into a renewed floor.

KemFlor 317 CF

Features: Medium duty, static conductive, self leveling epoxy top coat
Advantage: Electrostatically conductive, suitable for areas with sensative electronic equipment.
Intended Uses: Computor rooms, battery charging rooms, area subjected to high explosion risk as LPG bottling plant.

KemFlor 317 DF

Features: Medium duty, static dissipative, self leveling epoxy top coat
Advantage: To control static properties of floor surface, electrostatically conductive.
Intended Uses: Control static properties of floor surface. Suitable for production unit, equipment room, chemical industry, & other industries.

KemFlor 514 SL

Features: Epoxy polyurethane self leveling top coat for oily surfaces
Advantage: High strength, recommended on oil contaminated surface, self leveling property, wide range of colours, gloosy.
Intended Uses: It is used to enhance durability & floor surface finish, engineering, garages, manufacturing units, warehouses.

KemFlor 517 SL (0.5 mm)

Features: Medium duty, self leveling epoxy top coat
Advantage: Economical, self leveling, easy to apply.
Intended Uses: It is used to enhance durability & floor surface finish. It is suitable for pharma, engineering, steel, packaging, electronics, food & beverages, hospital & other industries.

KemFlor 517 SL (1-2 mm)

Features: Medium to heavy duty, self leveling epoxy top coat
Advantage: Ease of application, good mechanical properties.
Intended Uses: It is used to enhance durability & floor surface finish. Suitable for pharma, engineering, steel, packaging, food & beverages, etc.

KemFlor 517 CR

Features: Medium duty, chemical resistance, self leveling epoxy top coat
Advantage: Highly chemical resistance flooring system, self leveling, easy to apply, good mechanical properties.
Intended Uses: Chemical process areas, production areas, chemical storage areas, laboratories.

KemFlor 518

Features: Light duty, epoxy coating
Advantage: Product for maintenance coating, easy application by roller, glossy, asthetic, wide range of colours.
Intended Uses: It is used to enhance floor surface finish for light movement industry only. It is also used as demarcation paint.

KemFlor 524 Decor

Features: Medium duty, self leveling, decorative epoxy top coat, smooth finish with excellent aesthetic look, solvent-less epoxy
Advantage: Unmatched design versatility as per customer requirement, seamless, easy to clean.
Intended Uses: Offices, lobbies, reception area, malls, kitchen tops & other areas.

KemFlor 617 SL

Features: Medium to heavy duty, self leveling polyurethane top coat
Advantage: Good flexibility, good adhesion on concrete surface, better abrassion resistance & impact resistance.
Intended Uses: Warehouses, cold storage, engineering, steel, packaging, work shops & parking desks.

KemFlor 626

Features: Light duty, solvent based, polyurethane coating
Advantage: Wide range of colours, asthetic, high gloss, good abrassion resistance, uv & gloss retention, easy application.
Intended Uses: As pigmented coat on preapplied polymer based floor coating, can be applied on wood for asthetic.

KemFlor 634

Features: Light duty, water based, clear polyurethane coating
Advantage: Low odour, good UV resistance, non yellowing, easy to clean, matt finish.
Intended Uses: Improve UV resistance properties any pre-applied coating as epoxy or aromatic, PU based self leveling compound.

KemFlor 817 SL

Features: Medium to heavy duty, epoxy polyurethane top coat
Advantage: Better flexibility, glossy, wide colour range.
Intended Uses: It is used to enhance durability & floor surface finish. It is suitable for engineering, steel, packaging, electronics, food, hospital & other industries.

KemPolyurea 5556

Features: Very fast drying, flexible, excellent chemical resistance
Advantage: Rapid return to service seamless non cracking.
Intended Uses: Food processing plant, manufacturing facilities, bottling & capping facility.

Kem Kar Park EP

Features: Medium duty, anti skid, epoxy car park coating
Advantage: 100 % solids, easy to apply, asthetic, protective & wearing surface for car parking structures.
Intended Uses: Multi storey, underground car parks, basements, decking system.

Kem Kar Park PU

Features: Medium duty, anti skid, polyurethane car park coating
Advantage: 100 % solids, flexible, easy to apply, asthetic, protective & wearing surface for car parking structures.
Intended Uses: Multi storey, underground car parks, basements, decking system.

KemCrete MDS

Features: Suitable For -20^{o}c to 40^{o}c work environment post curing Medium to heavy duty, cementitious polyurethane finish coat
Advantage: Provides hot water washable floor, specially in food processing industry, can be applied on 10 days old concrete.
Intended Uses: Food processing plants, thermal shock areas, chemical plants, workshops.

Sr. No.	Product	Packs	Base	Thickness in mm	Pack Size Kg	Compressive Strength N/mm²	Tensile Strength N/mm²	Flexural Strength N/mm²	Shore D	Pot life min @ 30°C
1.0	KemFlor 317 CF	3	Epoxy	1.00	14	60.00	12.00	25	73	30
2.0	KemFlor 317 DF	3	Epoxy	1.00	14	69.00	20.00	25	73	30
3.0	KemFlor 514 SL	4	EPU	1.00	70	82.00	27.00	35.00	80	30
4.0	KemFlor 517 SL	2	Epoxy	0.50	30	65.00	24.00	22.50	80	30
5.1	KemFlor 517 SL	4	Epoxy	1.00	17 & 70	70.00	20.00	35.00	85	30
5.2	KemFlor 517 SL	4	Epoxy	2.00	90	75.00	22.00	28.00	82	30
6.0	KemFlor 517 CR	4	Epoxy	1.00	70	70.00	15.00	30.00	80	30
7.0	KemFlor 518	2	Epoxy	0.25	30	65.00	21	28	75	30
8.0	KemFlor 524 Decor	5	Epoxy	2.00	62	69.20	20.00	36	73	30
9.0	KemFlor 617 SL	2	PU	1.00	30	55.00	15.00	32.00	85	20
10.0	KemFlor 626	2	PU	0.15	14	N/A	N/A	N/A	N/A	30
11.0	KemFlor 634	2	PU	0.10	5 & 25	N/A	N/A	N/A	N/A	30
12.0	KemFlor 817 SL	4	EPU	1.00	70	50.00	16.50	31.00	83	30
13.0	KemPolyurea 5556	2	Polyurea	1.00	400 Ltr	N/A	10.00	N/A	60	< 30 sec.
14.0	Kem Kar Park EP	4	Epoxy	1.60 - 2.00	36	70.00	25.00	32	65	30
15.0	Kem Kar Park PU	4	PU	1.60 - 2.00	36	70.00	28.00	36	50	30
16.0	KemCrete MDS	3	PU	3.00	30	45.00	9.00	21.00	60	10

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Specialty product

Static Control Floors Coatings - KemFlor 317

Static electricity is a charge at rest. tatic charges are caused by surfaces separating, friction, & movement of materials against surfaces (such as a shoe brushing against the floor). Nearly any time two materials are rubbed together there is an electric charge.

- Electrostatic discharge (ESD) is the sudden flow of electricity between two electrically charged objects caused by contact, an electric short, or dielectric breakdown.
- ESD can cause a range of harmful effects of importance in industry, including gas, fuel vapour & coal dust explosions, as well as failure of solid state electronic components such as integrated circuits. These can suffer permanent damage when subjected to high voltages.
- ESD or conductive concrete floor systems to help safely dissipate the electrostatic potential & prevent damage to expensive equipment, electrical shocks to personnel, arc flashes & similar incidents.
- Electrostatic dissipative (ESD) flooring & conductive coatings can help safeguard expensive equipment & personnel.

Features
- Outstanding static control
- Easy to apply
- Low odor
- Abrasion resistance

Typical uses
- Electronic manufacturing
- Assembly area
- Computer facilities
- Bottling plants

Mechanical Properties		
Properties	**Method**	**Values**
Compressive strength	ASTM C 579	60 N/mm²
Tensile strength	BS 6319 Part -7	12 N/mm²
Abrasion resistance	ASTM-D-4060	48 mg loss
Flexural strength	BS 6319 Part -3	25 N/mm²
Hardness (Shore D)	ASTM- D- 2240	73
Conductivity range	ASTM D 150	
KemFlor 317 CF	ASTM D 150	< 1X10^6
KemFlor 317 DF	ASTM D 150	1X10^6-1X10^9

Features
- Aesthetically attractive
- Hard wearing
- Slip resistant
- Resistant to engine oil, fuel

Typical uses
- Multi storey car parks
- New construction projects
- Refurbishment of existing
- Commercial Establishment

Kem Kar Park EP - Solvent less, epoxy based anti skid car parking coating ideal for multistory, underground car park.

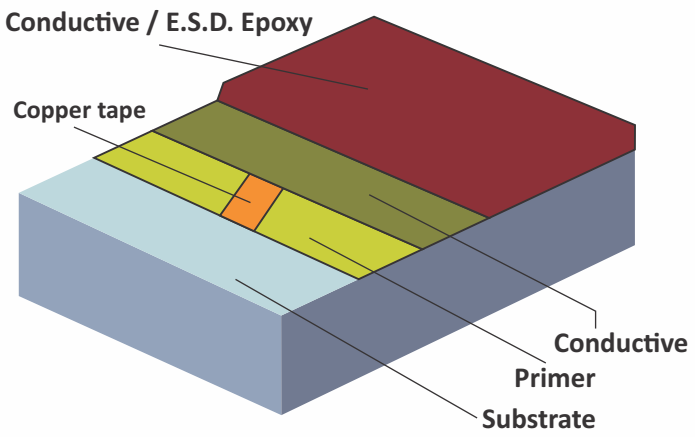
Kem Kar Park PU - Solvent less, aromatic polyurethane anti skid car parking coating ideal for multistory, underground car park.

KemFlor 317 - CF - A conductive floor material, because it has low electrical resistance, allows electrons to flow easily across its surface or through its volume.

Application Areas - Electronic manufacturing, assembly test areas, clean rooms, data processing areas, computer facilities.

KemFlor 317 - DF - Static dissipative materials have electrical resistance between insulative & conductive materials.

Application Areas - Electronic manufacturing, assembly test areas, clean rooms, data processing areas, computer facilities.



Car Parks - Kem Kar Park

The requirements for car park coatings are highly diverse depending on the area of use. A floor slab in contact with the ground is subjected to very different stress levels than a raised deck exposed to the elements. Depending on driving frequency & the associated mechanical stress applied to the various areas of a multi-storey car park, the layer thickness & / or the system can be adapted to suit anticipated requirements. Chembond car parking system guarantee a high level of protection for surfaces with slip resistance finish, resistance to chemicals as oil, fuel, lubricants, offers high mechanical resistance with durability.

Physical properties	STD Method	KemKar park PU	KemKar park EP
Chemical base		PU	Epoxy
Compressive strength	ASTM C -579	70 Mpa	80 Mpa
Tensile strength	BS-6319-part-7	28 Mpa	25 Mpa
Flexural strength	BS-6319-part-7	40 Mpa	35 Mpa
Bond strength	ASTM D 4541	2.3 Mpa	2.5 Mpa
Hardness (Shore D)	ASTM D 2240	80	90
Abrasion resistance	ASTM D -4060	25 mgs	32 mgs

Cementitious Polyurethanes - KemCrete

Polyurethane modified cementitious flooring system designed to protect concrete substrates from chemical corrosion, abrasion, impact & thermal shock. Cementitious polyurethane flooring systems are suitable for food processing areas, production areas, bottling plants, commercial kitchens, pharmaceutical plants, sanitize/wash areas & chemical processing areas. The durability, slip & chemical resistance of a system is directly proportional to its thickness & other factors such as the levels of traffic, mechanical & chemical use, possible impact damage & housekeeping practices should always be taken into consideration.

Features
- Thermal shock resistant
- Matt finish
- Temperature resistant
- Excellent chemical resistant

Typical uses
- Food processing units
- Meat, poultry, dairy plants
- Commercial kitchens & restaurants
- Freezers & coolers

Physical Properties	Test Method	Result
Compressive strength	ASTM C -579	45 Mpa
Tensile strength	BS-6319-part-7	9 Mpa
Flexural strength	BS-6319-part-7	21 Mpa
Bond strength	ASTM D 4541	2.3 Mpa
Hardness (Shore D)	ASTM D 2240	60
Abrasion resistance	ASTM D -4060	23 mgs

Epoxy Modified Cementitious Screed - KemFlor 527

Polymers are added into cementitious mortars for different purpose. They are used mainly to improve performance of final product like the work ability, adhesion, tensile strength & many other properties of cement materials. They combine several advantages compared to conventional materials like pure epoxy or self-leveling cementitious screeds. This kind of material can be applied on relative water-saturated substrates or a few days old concrete without cracks or blister formation. It is also known, that properly designed formulations could provide a temporary moisture barrier, which is used to minimize osmotic blister formation in polymer based top coats caused by high moisture content of the substrate.

Features

Rapid, easy application to form a smooth finish, for internal use.
- May be coated after just 24 hours (at +20°C and 75% R.H.) with epoxy or polyurethane resin formulates.
- Excellent adhesion to concrete.
- Reduces the risk of detachment even if applied on damp substrates.
- Solvent-free.

Typical uses

Leveling layer on damp concrete flooring (not completely cured) or subject to capillary rising damp from the substrate.

Physical properties	Test Method	Result
Compressive strength	ASTM C -579	60 Mpa
Tensile strength	BS-6319-part-7	12 Mpa
Flexural strength	BS-6319-part-7	20 Mpa
Bond strength	ASTM D 4541	>1.8 concrete fail
Hardness (Shore D)	ASTM D 2240	75
Abrasion resistance	ASTM D -4060	450 mgs

Decorative Top Coats - KemFlor 524

Solvent-less epoxy based decorative floor coating for use in commercial environments. Chips are colored chips / flakes designed for use in a variety of decorative applications including resinous flooring, available in a wide array of colors & sizes to provide unique texture & color to coated surfaces. Can be top coated with aliphatic polyurethane clear coat for added uv protection & gloss retention.

Features
- Architectural beauty
- Seam less
- Unlimited design
- Abrasion resistance
- Extraordinary strength
- Ease of Application

Typical uses
- Pharmaceutical
- Commercial kitchens
- Health care
- Auto dealerships
- Airplane hangers
- Offices & halls

Physical properties	Test Method	Result
Compressive strength	ASTM C -579	69 Mpa
Tensile strength	BS-6319-part-7	20 Mpa
Flexural strength	BS-6319-part-7	36 Mpa
Bond strength	ASTM D 4541	>1.8 Mpa
Hardness (Shore D)	ASTM D 2240	73
Abrasion resistance	ASTM D -4060	45 mgs

Chembond Material Technologies

METAL TREATMENT CHEMICALS

ENGINEERING ADHESIVES

INDUSTRIAL COATINGS

PAINT BOOTH SOLUTIONS

AUTOMOTIVE SEALANTS

MRO PRODUCTS

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