Carbolink's Solutions for :

Anti Corrosive Coatings

Anti Corrosive Coatings Product Specifications & Technical Data Sheets(TDS)

India's Most Preferred
Construction Chemical Manufacturing Brand

Carbolink India Pvt. Ltd.
WWW.CARBOLINKINDIA.COM

Carbolink India Pvt. Ltd.
COMPANY PROFILE

For years, Carbolink India has been the Quality Leader in offering excellent Construction Chemical Products with Supreme Quality and Reliability.

Carbolink India Manufactures Industrial Flooring(Epoxy & PU Flooring), Decorative Flooring, 3D Flooring, Waterproofing Systems, corrosion protection, wood coatings, etc. which cater specifically to the Indian climate.With manufacturing facility in India, Carbolink India manufactures and supply Materials all through the country. Carbolink's commitment to customer service and technical support is the best. We work closely with architects, structural engineers, contractors and owners to best understand their requirements. Together we develop a best solution for a construction project, adding value and becoming more than just a materials supplier, but a solution provider.

With the support of our multinational manufacturing group, Carbolink India today has support centers across the country, strategically placed to provide consistent high standards of product and service.

Our Product Range:

- Anti Corrosive Coatings
- Car Park Flooring
- Curing Coumpounds
- Decorative Flooring
- Floor Hardner
- Grounts & Anchors

- Industrial Flooring
- Reparing Compunds
- Sealants
- Sports Flooring
- Tiling Products
- Wood Coatings

Anti-Corrosive Coatings

Corrosion resistant coatings protect metal components against degradation due to moisture, salt spray, oxidation or exposure to a variety of environmental or industrial chemicals. Anti-corrosion coating allows for added protection of metal surfaces and act as a barrier to inhibit the contact between chemical compounds or corrosive materials. Many of the coatings listed below also provide a bonus of abrasion resistance, non-stick performance and chemical protection.
Metal Coatings provides both corrosion resistant bolt coating services and corrosion protection fastener coating services.

Carbolink manufactures a full range of world class Anti-Corrosive systems providing the most up-to-date technologies. Carbolink India is a leader in tailored Anti-Corrosive Solutions.

Here is our Anti-Corrosive Products range:

CLI COAT AC 31

HIGH PERFORMANCE ANTI CARBONATION PROTECTIVE / DECORATIVEN COATING

DESCRIPTION

CLI Coat AC 31 is an acrylate based non-yellowing Anticarbonation protective coating for concrete and masonry surface. It is available in selective colours and will not show yellowing tendency on exposure to sunlight when applied to the concrete. It forms an inert, impervious film that is resistant to alkali from fresh concrete as well as acid, salt and many construction stains. It is ideally suitable for exterior application to protect the structure from Carbonation, chloride ions, Salts, Weathering and Industrial corrosive climate.

The complete system consists of CLI Coat AC 31 as a primer and CLI Coat AC 31 as a Top coat. PC 14 P is a solvented Silane Siloxane based penetrative & reactive sealer, which chemically reacts with the substrate & forms a effective barrier to the dissolved ions, salts etc in the water. The total system offers a long lasting anti-carbonation and corrosion protection for concrete structures.

ADVANTAGES

- Excellent barrier to carbon dioxide, chloride ions, sulphates, oxygen and water.
- Selected range of decorative colours
- Easy for application. Single pack
- Highly durable in all climate conditions.
- Seals out dirt and other staining materials
- Excellent resistance to UV rays
- Permeable to water vapour - Breathable

APPLICATION

- Old & new Concrete structures
- Unglazed bricks and clay tiles
- Terrazzo floors and walls
- Exterior masonry surface
- Bridges, Dams, Flyovers, Elevated MRTS and Marine Structures
- Chimneys, cooling towers, Silos, Industrial buildings & power house

APPLICATION METHODOLOGY

- Surface should be dry, structurally sound, free from grease, oil, dirt and other contaminations.
- Remove any curing compound or releasing agents prior to coating.
- Use compressed air or grit blasting to remove dust and other loose particles.
- Any blow holes, honey combs on the surface should be repaired & made even.
- Ensure that the surface is dry prior to application.
- CLI Coat AC 31 is a single pack system. Mix well before application, to ensure that there is no sedimentation.
- Low pressure, airless sprayer is the preferred method of application. But a brush or roller may also be used for coating. Material should be applied to assure uniform coverage.
- Apply ShaliPrime AC primer as per the coverage. Allow the primer to dry for atleast 4 -5 hrs before coating it with CLI Coat AC 31.
- Apply CLI Coat AC 31 as per the coverage and allow at least 4 – 5 hrs to dry before re-coating of the second coat. CLI Coat AC 31 is self curing.
- Actual coverage depends upon surface texture & wastages.

CHARACTERSTICS

Physical Appearance	Coloured Low viscous liquid
DFT	150 – 175 microns including primer coat
Application Temperature	5 – 40 Deg. C
Bond strength to concrete (ASTM D 4541)	> 1.5 MPa
Specific Gravity	1.00 – 1.05
Theoretical Coverage	5 m2 /L/coat. Two coats are needed
Recoat time	4-5 hrs at 25 °C
CO_2 diffusion resistance at 80 microns DFT	Equivalent Air layer thickness : > 70 mtr Equivalent concrete thickness : 177mm

CLEANING & MAINTENANCE
Clean tools and equipment with Xylene or Toluene before the material hardens

HEALTH & SAFETY
- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

PACKING
Available in 20 L pack.

STORAGE AND SHELF LIFE
Keep in cool and dry place under shed away from heat. The shelf life of product is 1 year in original unopened sealed condition.

CONDITIONS OF SALE
Sold subject to the Company's conditions of sale which are available on request.

NOTE
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CLI COAT AWB

WATER BASED PROTECTIVE-CUM-ANTI CARBONATION COATING

DESCRIPTION
CLI Coat AWB is a high build elastomeric, micro porous coating, which facilitates long term protection and decoration of concrete and masonry surfaces. CLI Coat AWB gives an extremely tough coating, which allows substrate to breathe. CLI Coat AWB may give textured finish.

ADVANTAGES
- Water based, non-toxic, environment friendly green product.
- High build elastomeric, micro porous coating.
- Excellent resistance to carbon dioxide, air-borne / water-borne chloride.
- Excellent crack bridging properties and weathering resistance.
- Protective / decorative coating, which allows structure to breathe.

APPLICATION
- Bridge abutments.
- External concrete surface of storage tank and masonry surface.
- Multistoried building and villas.
- High external tough UV resistant coating like on pipe protection enamel. Concrete cladding.
- Subways.

APPLICATION METHODOLOGY
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air.
- Remove oil and, grease, chemical contaminants and extraneous matter.
- Ensure that the substrate is sound, clean and free from dust and all loose or flaking material. Fill all holes and deep cracks with a suitable filler.
- Ensure that no trace of mould or algae remains and that area is treated with a suitable antifungicide or bleach solution.
- In case of new cementitious substrate, ensure that the substrate is fully cured for atleast 14 days.
- Stir drums thoroughly for uniformity. For best result, use a variable speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 400-600 rpm
- Dilute CLI Coat AWB by adding 10% clean water by volume and prime old, absorbent and weathered surface.On non porous surfaces, apply CLI Coat AWB undiluted. Prime all metal substrates with CLI Prime Zn 40.
- Apply CLI Coat AWB evenly at temperatures between 3 °C and 30 °C with roller, brush or airless spray. Use two coat systems on dark, absorbent and heavily textured surfaces and when full carbonation protection is required. Porous, rough and irregular surfaces will reduce coverage rates.

CHARACTERSTICS

pH	9 -11
Thinning Agent	Water
Co2 resistant equivalent air layer thickness	123m @ 160 µ W
Water Vapour Permeability, 24 hrs	0.02 mg
Resistant to weather	Very Good
Surface structure	Smooth
Binders	Pure Acrylate
Density, grm / cc	1.35 approx
Water absorption according to DIN 52617	w < 0.2 kg / m2 hr
Theoretical Coverage m2 / L / Coat	6 - 7
Co2 diffusion coefficient	6.4 x 10 power 5

CLEANING & MAINTENANCE
Clean all tools immediately after use with water.

HEALTH & SAFETY

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

PACKING

Available in 10 L and 20 Ldrums.

STORAGE AND SHELF LIFE

KStore in a cool dry place at temperatures between 5 °C and 30 °C, under shade, away from heat. The shelf life of product is 1 year in original unopened sealed condition.

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CLI COAT C30

TWO COMPONENT ANTI CORROSIVE CERAMIC EPOXY COATING

DESCRIPTION
CLI COAT C30 is an epoxy system having specific ceramic filler with modified cycloaliphatic amine as curing agent. The ceramic filler maximizes the abrasion and thermal shock resistance. CLI COAT C30 is very effective where erosion followed by corrosion is eminent. Slurry and gas with high level of solid particles when pass through pipe lines at high velocity erode and corrode the pipe lines. Effluent drainage line, waste water treatment lines and coke oven gas lines often meet this phenomenon.

ADVANTAGES
- Outstanding abrasion resistance
- Excellent acids and alkali resistance
- Low VOC system
- Can be used on steel, concrete and epoxy mortars.

APPLICATION
Recommended for structural steels , tank linings, battery storage areas, pulp and paper mill, coke oven plants, waste water treatment plant, mines and marine installations.

APPLICATION METHODOLOGY
- Remove dust, flakes, oil, grease or other foreign particles by jet or dry air and clean the surface to make it smooth before applying CLI COAT C30.
- Surface of steel must be prepared as per the NACE or SSPC guidelines. Concrete surface should be sound and 28 days cured . Use ShaliPrime C for priming the concrete surface and CLI Prime Zn 30 for metal surface.
- Both the components should be stirred separately before mixing with a hand drill type spiral stirrer. This is to disperse all the fillers which might settle in the can.

CHARACTERSTICS

Physical Appearance	Grey
Mixing Ratio	2 : 1
Theoretical Coverage for 200 – 250 micron	3 – 4 m2 /L
Volume Solid %	80 ± 2
Pot Life @ 25 °C, hr	2
Recoat Time @ 25 °C, hr	8 – 16
VOC, grm/L	150

HEALTH & SAFETY
- Use goggles and hand gloves during application.
- Clean hands with warm soap water after application.

PACKING
Available in 18 L packing (12 L & 6 L) consisting of Component A & B.

STORAGE AND SHELF LIFE
Store in a cool dry place under shed away from heat.

CONDITIONS OF SALE
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CLI COAT MIO

TWO COMPONENT POLYAMIDE EPOXY INTERMEDIATE ANTI - CORROSIVE COAT

DESCRIPTION

CLI COAT MIO is a two pack polyamide cured coating, pigmented with micaceous iron oxide. CLI COAT MIO offers good resistance against abrasion and impact. When cured, CLI COAT MIO coating provides an excellent barrier against penetration of water and water vapour. CLI COAT MIO can be used as primer or intermediate coat.

ADVANTAGES

- Easy to Apply.
- Economical.

APPLICATION

- Protection of steel structures in aggressive coastal & industrial atmosphere.
- Ship loaders.
- Hoppers, conveyors silos, storage tanks, pipelines and general steel structures in fertilizer plants, refineries, petrochemicals, chemical plants, engineering industries, etc.

APPLICATION METHODOLOGY

- In case of new steel surface, blast clean to a minimum surface profile not exceeding 65 microns.
- In case of old steel surface, blast clean and if blast cleaning is not practical, use mechanical tools along with manual chipping and wire brushing to remove loose rust. Excessive burnishing of steel is to be avoided. Thoroughly dust down the surfaces. Remove grease, oil and other contaminants preferably by using STP thinner.
- Apply CLI COAT MIO on touch dry cleaned and primed steel surface.
- Stir the Comp A and Comp B separately. If settling is observed in the Comp A, loosen the settled material with the help of hand stirrer followed by power driven stirrer for quick homogenous mixing. Mix hardener gradually into the base under continuous stirring.
- Continue mixing till a homogeneous mix is achieved.
- Apply mixed material by brush or roller.

CHARACTERSTICS

Pot Life, 30 °C, hrs	4 – 6
Over-coating interval	
• Minimum, hrs	24
• Maximum, Days	7
Theoretical Coverage, m2/L	4.5 – 5.00
Application temperature, °C	> 10 but < 50
Finish	Matt
Dry Film Thickness	75 – 100 microns
Drying Time	
• Touch dry, hrs	4 - 6
• Full Cure, Days	7
Flash Point	> 40 °C
Compatability	Can be top coated with Epoxy, Polu\yUrethane

HEALTH & SAFETY

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting .

PACKING

Available in 20 L container.

STORAGE AND SHELF LIFE

Store in a cool dry place under shed away from heat. The shelf life of product is 12 months in original unopened sealed condition.

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CLI GUARD 40

TWO COMPONENT HIGH SOLID FOOD GRADE EPOXY COATING

DESCRIPTION
CLI Guard 40 is WRAS Approved Food Grade Epoxy Coating for internal coating of pipes, vessels and other equipments used for portable water. It conforms to BS 6920:2000 and AWWA C 210.

ADVANTAGES
- Excellent food grade properties
- Excellent adhesion to the surface corrosion, protection properties.
- Good temperature / abrasion resistance properties.

APPLICATION
- Internal coating for potable water pipelines.
- Internal coating for potable water storage

APPLICATION METHODOLOGY
- Prepare surface by mechanical grinding, shot blasting conforming to SA2½.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air.
- Stir drums of each component thoroughly for uniformity. For best result, use a variable speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 400-600 rpm. Pre heat part-A @ 50-65°C and Part-B @ 25-40 °C.
- Apply CLI Guard 40 by plural feed airless spray gun to the required thickness on the substrate.
- The tip pressure typically 2500-4000 psi (the tip pressure should be adjusted to achieve good atomization of the spray).
- Tip size typically 19-25 Thou orifice.
- The coating repair should be done by brush application with the same material provided the mixing quantity of Component A and component B should be done as per requirement of the repairing job because of the lower pot life of the material. Mixing will be done in a drill type mixer. For repairing job, heating of individual component is not required.

CHARACTERSTICS

Material Property	Resullt	Testing Method
Color	Dark Brown / Light Yellow / White	NA
Ratio	3:1 By Volume	NA
Pot Life @ 28°C ,55% RH,100 g	22 ± 3 min	In House
Touch Dry @ 27 OC, 55% RH, hr	Within 1 hr	In House
Hard Dry @ 27 OC, 55% RH, hr	6-8 hours	In House
Full Cure @ 27 OC, 55% RH, days	7	In House
Volume Solids	~ 100 %	In House
Specific Gravity (Mixed) @ 27 °C	1.49 ± 0.02	In House
Film Thickness, micron	415 ± 15	SSPC- PA 2
Compressive Strength (MPa)	70	ASTM C 109
Theoretical Coverage, m2 / L	2.32	In House
Hardness (Shore D), minute	80 - 85	ASTM D 2240
Adhesion to Steel (psi)	> 2000	ASTM D 4541
Long term contact with potable water for human consumption	No Effect	NSF/ANSI-61
Application Temperature	10 – 60 with RH ˜ < 75%	NA
Scratch Resistance,	No failure at 1.5 kg load	IS:101

CLEANING & MAINTENANCE
Clean all tools immediately after use with STP cleaner.

HEALTH & SAFETY
- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

PACKING
Available in 200 L – 150 L Comp A and 50 L Comp B.

STORAGE AND SHELF LIFE
Keep in a cool and dry place under shed away from heat. The shelf life of product is 9 months in original unopened sealed condition.

CONDITIONS OF SALE
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CLI PRIME - ET32

TWO COMPONENT ETCH PRIMER

DESCRIPTION
CLI Prime - ET 32 is two component Zinc Tetroxy Chromate based low viscous etch primer. CLI Prime - ET32 prepares the surface for good bonding to the galvanized sheets, besides priming the metal surface on which it is applied. It conforms to IS:5666.

ADVANTAGES
• Better adhesion and flexibility.
• Etches the metal surfaces.

APPLICATION
• Galvanized / metal sheet.

APPLICATION METHODOLOGY
• Ensure that surface is clean before applying ShaliPrime Etch. Remove any dirt, oil, grease etc.
• Mix Comp. A into Comp B and stir thoroughly to achieve a homogeneous mix.
• Apply CLI Prime - ET32 by brush, conventional or airless spray.

CHARACTERSTICS

Pot Life, @ 30 °C, hrs	4 - 5
Recoating Time, hrs	24 Max
DFT in microns	8 - 12
Surface Dry, @ 30 °C	25 – 45 minute
Theoretical Coverage, m2 /L/coat	8 - 10

HEALTH & SAFETY
• The product should not come in contact with the skin and eyes, or be swallowed.
• Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
• Wear suitable protective clothing, gloves and eye protection.
• In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
• In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
• If swallowed seek medical attention immediately - do not induce vomiting.

PACKING
Available in 5 L container

STORAGE AND SHELF LIFE
Store in a cool dry place under shed away from heat. The shelf life of product is 6 months in original unopened sealed condition.

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CLI PRIME - RO41

TWO COMPONENT ANTI CORROSION RED OXIDE EPOXY PRIMER

DESCRIPTION
CLI Prime - RO41 is a two component; cold cure epoxy based red oxide epoxy primer used as anti-corrosive primer. It is recommended for application on blast-cleaned metal surface.

ADVANTAGES
- Excellent durability to all types of chemical environment.
- Excellent inter-coat bonding

APPLICATION
- As anti-corrosive primer on steel surfacest.

APPLICATION METHODOLOGY
- Oil and grease on the steel surface must be removed using suitable method, salts and other contaminants by (high pressure) fresh water cleaning prior to blasting.
- After blasting, clean the surface carefully from abrasives and dust.
- Abrasive blasting is the most effective method.
- Ensure surfaces are completely dry in depth and free of dirt, oil, grease or other contamination.
- On old steel surfaces having been exposed to salt water, excessive amounts of salt residues in pitting may call for wet abrasive blasting followed by dry abrasive blasting.
- CLI Prime - RO41 may be over coated with conventional paints or two-pack epoxy paints/Polyurethane paints. Over-coating can be done after 6 – 8 hrs; however, it is recommended to coat after 12 - 24 hrs of application of primer to obtain superior performance

CHARACTERSTICS

Pot Life, hrs	3 – 4
Surface Dry, hrs	2 - 3
Dry Film Thickness	35 microns
Mix Specific Gravity	1.26 + 0.02
Theoretical Coverage, m2/L/coat	6 – 9
Application Temperature	> 10 °C

HEALTH & SAFETY
- The product should not come in contact with the skin and eyes, or be swallowed.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately - do not induce vomiting.

PACKING
Available in 20 L container

STORAGE AND SHELF LIFE
Store in a cool dry place under shed away from heat. The shelf life of product is 12 months in original unopened sealed condition.

CONDITIONS OF SALE
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CLI PRIME Zn 30

TWO COMPONENT ANTI CORROSIVE ZINC RICH PRIMER

DESCRIPTION

CLI Prime Zn 30 is a two component, cold cure, epoxy resin blend with zinc powder. Unlike regular paints / epoxies, which resists corrosion by forming and impermeable barrier between the metal and atmospheric moisture, CLI Prime Zn 30 provides corrosion protection through tiny electrical cathodic cells formed by interaction of zinc with steel surface. Of course, CLI Prime Zn 30 provides some impermeable barrier as well. CLI Prime Zn 30 is superior to paints / epoxies in providing corrosion protection.

ADVANTAGES

- Excellent long term protection of steel.
- Easy to use and apply at the job site.
- Paint / epoxy / urethane may be used as topcoats.
- Long pot life for optimum working time.

APPLICATION

- Anti-corrosive primer for steel surfaces.
- Anti-corrosive primer for reinforcement steels.

APPLICATION METHODOLOGY

- Remove dust, flakes, or other foreign particles by jet or dry air and clean the surface mechanically or by grinding to make it smooth before application.
- In case of new steel structure, blast clean to a minimum surface profile not exceeding 65 microns In case of old steel structure, where blasting is not practical, use mechanical tools along with manual chipping and wire brushing to remove loose rust.
- Avoid excessive burnishing of steel.
- Thoroughly dust down the surfaces.
- Apply CLI Prime Zn 30 on an even, firm and bone dry surface.
- Stir component A and B separately with a hand drill type spiral stirrer. This is to ensure homogeneous dispersal of all fillers, which might have settled in the can. If settling is observed in the Comp A, loosen the settled material with the help of hand stirrer followed by power driven stirrer for quick homogenous mixing.
- Gradually add the entire contents of thoroughly stirred Comp B e.g. hardener to Comp A and mix thoroughly for 3 minutes using a slow speed drill (400 - 500 rpm) fitted with a suitable mixing paddle until homogeneous mix is achieved. Carry out mixing in a specially designed drum mixer or in a bucket using drill mixer fitted with paddle.
- Appply the homogenous two component thoroughly stirred mixture to the cleaned, evened and bone dry surface @ 5 -6 m2 /L. Lay the mix on bone dry surface at temperatures ranging between 10 °C to 50 °C. using a brush or roller.
- Install CLI Prime Zn 30 by spreading evenly over the recommended area.
- Avoid excess application and mixing. Do not apply CLI Prime Zn 30 in more than 50 microns DFT in a single coat.
- Apply second coat of CLI Prime Zn 30 on bone dry first coat.
- CLI Prime Zn 30 may be over coated with conventional paints or two-pack epoxy paints/Polyurethane paints. Over-coating can be done after 6 – 8 hrs; however, it is recommended to coat after 12 - 24 hrs of application of primer to obtain superior performance

CHARACTERSTICS

Pot Life, hrs	3 – 6
Dry Time, hrs	1.50
Dry Film Thickness	35 microns
Specific Gravity	1.50 + 0.02
Theoretical Coverage, m2/L	5 – 6
Minimum Application Temperature	> 10 °C < 50 °C

HEALTH & SAFETY

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

PACKING
Available in 15 L container.

STORAGE AND SHELF LIFE
Store in a cool dry place under shed away from heat. The shelf life of product is 12 months in original unopened sealed condition.

CONDITIONS OF SALE
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CLI PRIME Zn 40

TWO COMPONENT ANTI CORROSIVE ZINC PHOSPHATE PRIMER

DESCRIPTION

CLI Prime Zn 40 is a two component, polyamide cure zinc phosphate anti-corrosive epoxy primer for steel surfaces. CLI Prime Zn 40 is composed of zinc phosphate, non-lead pigments and inert mineral fillers in a polyamide binder with aromatic hydrocarbons and alcohol solvents.

ADVANTAGES

- Resists most chemical environment when used with recommended topcoats.
- Resists water / corrosion
- Provides good anti-corrosion protection
- Facilitates adhesion of finish onto difficult substrates
- Non-toxic, safer to use as compared to chromate version

APPLICATION

- Suitable for use on blast cleaned steel where a complete epoxy system is required. It is suitable as a patch primer for treatment of manually prepared steel.

APPLICATION METHODOLOGY

- Remove dust, flakes, or other foreign particles by jet or dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Thoroughly dust down the surfaces.
- Remove majority of rust scales from surface of rusting steel structure / reinforcement by wire brush, chipping or grinding.
- Ensure that the substrate temperature is in the range of 10 OC – 110 °C.
- Apply ShaliRustOff on the surface where wire brush is not reachable and allow the surface to dry for 30 minutes.
- Apply CLI Prime Zn 40 on dry surface.
- Mix Comp A and Comp B in the ratios of 5.5 : 1 by volume and in the ratios of 8.9 : 1.1 by weight.
- Apply CLI Prime Zn 40 by brush, roller or spray. When applied by airless spraygun, ensure that the minimum working pressure of 140 kg / cm2 with a spray tip size 0.43 – 0.53 mm and a spray tip angle of 65O . It is important that the base and the hardener are at the minimum temperature of 15 °C when mixed for satisfactory spray application
- CLI Prime Zn 40 may be over coated with conventional paints or two-pack epoxy paints and polyurethane. Over-coating can be done after 8 - 10 hrs; however, it is recommended to coat after 12 - 24 hrs of application of primer to obtain superior performance.

CHARACTERSTICS

Colour	Grey
Theoretical Coverage, m2/L	5.00 – 8.00
Dry Film Thickness	60 – 100 micron
Application Temp, °C	>10 to < 110
Pot Life, 30 °C , hr	Upto 4
Curing Time Full Cure, days	7

HEALTH & SAFETY

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting .

PACKING

Available in 15 L container.

STORAGE AND SHELF LIFE

Store in a cool dry place under shed away from heat. The shelf life of product is 12 months in original unopened sealed condition.

CONDITIONS OF SALE
Sold subject to the Company's conditions of sale which are available on request.

NOTE
The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

PC 14 P

SILANE SILOXANE BASED PENETRATIVE PRIMER FOR CONCRETE & MASAONARY SURFACES

DESCRIPTION
PC 14 P is a Silane Siloxane based primer for Concrete surfaces. It penetrates into the pores of concrete & reacts with moisture present to form a hydrophobic polysiloxane sealing to the capillaries. It is a transparent colourless liquid. It bonds well to the concrete surfaces.

ADVANTAGES
- Prevent ingress of water borne chlorides & sulphates
- Single component
- Allows concrete to breath
- Penetrates & seal the capillary pores
- Excellent water repellent properties
- Easy to use & cost effective
- Transparent, no change in surface appearance

APPLICATION
- Used as primer for protection of concrete to the ingress of water & water soluble salts.
- Reducing efflorescence in Masonry structures.

APPLICATION METHODOLOGY
- Surfaces to be sealed must be dry, structurally sound, and free from grease, oil, dirt and other contamination. Remove any curing compound or releasing agents prior to coating. Use compressed air to remove dust and other loose particles. Ensure that the surface is dry prior to application.
- PC 14 P is a single pack system. Mix well before application, to ensure that there is no sedimentation.
- A low pressure, airless sprayer is the preferred method of application. But a brush or roller may also be used for coating. Material should be applied to assure uniform coverage. Apply PC 14 P primer as per the coverage. Ensure that sufficient material is applied to saturate the surface. Allow the primer to dry for at least 4 -5 hrs before over coating

CHARACTERSTICS

Physical Appearance	Clear Colourless Low viscous liquid
Theoretical Coverage	4 – 5 m2/L
Minimum application temperature	5°C
Specific Gravity	0.90 + or - 0.02

CLEANING
Tools, equipment and general clean-up can be done Xylene or Toluene

HEALTH & SAFETY
- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Ensure adequate ventilation and avoid inhalation of product.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice.
  Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

PACKING
Available in 20 L pack.

STORAGE AND SHELF LIFE
Store in a cool dry place under shed away from heat. The shelf life of product is 12 months in original unopened sealed condition.

CONDITIONS OF SALE
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RC - 18H

SINGLE COMPONENT WATER BASED RUST CONVERTER CUM PRIMER

DESCRIPTION
RC - 18H is single component, water based, ready to use rust converter cum primer. RC - 18H may be applied on any rusted iron or steel surface. It converts rust into a protective black layer that seals out moisture and protects against future corrosion.

RC - 18H consists of selected chemicals and organic polymers, which reacts with rust (iron oxide) and forms complex product which is stable, bluish black coloured layer. RC - 18H prevents further corrosion.

ADVANTAGES
- Easy to apply
- Saves labour as it is directly applied over rusted surface.

APPLICATION
- For Vehicles, trailers, fences, iron railings,
- Sheet metal
- Outside of tanks
- Lawn equipment

APPLICATION METHODOLOGY
- Remove dust, flakes, or other foreign particles by jet or dry air and clean the surface mechanically or with wire brush to ensure removal of loose rust particles.
- Apply RC - 18H on a firm and bone dry surface.
- Install RC - 18H by spreading evenly over the recommended area by brush.
- Apply second coat once the first coat is touch dry.
- Apply top coat of UV resistant protective coating, if the surface is exposed to atmosphere after 48 Hrs to ensure complete curing of RC - 18H.
- Do not pour used primer back in the original bottle.

CHARACTERSTICS

Colour	Light brown
Application	By brush
Theoretical Coverage m2/L	10 – 12
Application Temperature	Above 10 °C

HEALTH & SAFETY
- Use goggles, mask, nose cover and hand gloves during application.
- Clean hands with warm soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- If swallowed seek medical attention immediately. Do not induce vomiting.

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PACKING
Available in 1 L container.

STORAGE AND SHELF LIFE
Store in a cool dry place under shed away from heat.The product shelf life is12 months in original unopened sealed condition.

CONDITIONS OF SALE
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RR - 18C

CHLORIDE / SULPAHTE FREE LIQUID RUST REMOVER

DESCRIPTION

RR - 18C is chloride and sulphate free liquid rust remover. It effectively removes rust from steel surfaces. Preferably, RR - 18C is applied before application of any protective coating.

ADVANTAGES

- Simple, economical, cost effective and easy to apply.
- Contains corrosive, being free from any chloride component.
- Effective rust remover, even removes from areas difficult to reach.
- Excellent for equipment and structural rust removal.

APPLICATION

- Steel structures.
- Tanks.
- Water pipelines.
- Shuttering plates.
- Other steel surfaces.

APPLICATION METHODOLOGY

- Remove dust, flakes, or other foreign particles by jet or dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Thoroughly dust down the surfaces.
- Remove majority of rust scales from surface of rusting steel structure / reinforcement by wire brush, chipping or grinding.
- Ensure that the substrate temperature is in the range of 5 °C – 40 °C.
- Apply RR - 18C on affected surface by using cotton waste swab or by brush.
- Leave the surface coated with RR - 18C for atleast 15 to 30 minutes.
- Rusty surface will change its colour to original blackish steel.
- Then remove the loose rust particles by scrubbing or simple dusting with brush.
- Still if any rust remains on surface of steel, apply second coat of RR - 18C on bone dry first coat.
- When applied over corroded reinforcement steel, wash the surface with clean water before taking up further works of repairs.
- RR - 18C is acidic in nature, when applied to clean rusted rebars. Ensure that traces of acid are removed completely with water jet before applying coatings or primers.
- Do not apply RR - 18C to clean rusted rebars in critical RCC structures.

CHARACTERSTICS

Specific Gravity	1.18 ± 0.02
Theoretical Coverage, kg/m2	0.12 to 0.15
Nature	Acidic
Colour	Light Pink

HEALTH & SAFETY

- Use goggles, mask, nose cover and hand gloves during application.
- Clean hands with warm soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- If swallowed seek medical attention immediately. Do not induce vomiting.

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PACKING

Available in 1 Kg container.

STORAGE AND SHELF LIFE

Store in a cool dry place under shed away from heat.The product shelf life is12 months in original unopened sealed condition.

CONDITIONS OF SALE
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