Carbolink's Solutions for :

Repairing Compounds

Repairing Compounds Product Specifications & Technical Data Sheets(TDS)

Carbolink India Pvt. Ltd.

WWW.CARBOLINKINDIA.COM

India's Most Preferred
Construction Chemical Manufacturing Brand

Carbolink India Pvt. Ltd.
COMPANY PROFILE

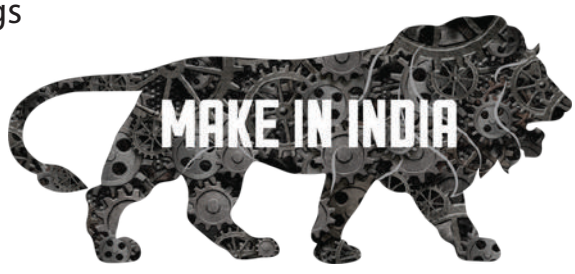
For years, Carbolink India has been the Quality Leader in offering excellent Construction Chemical Products with Supreme Quality and Reliability.

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

Repairing Compounds

Repairing Compound is fast setting, hydraulic cement product formulated to stop leaks in concrete and masonry surfaces. It is particularly effective for stopping the flow of running water. Repairing Compounds are ready to use and requires only the addition of water before plugging and sealing cracks.

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

Here is our Repairing Compounds Products range:

CLI Crack Fill (CF 33)

Non-Shrink Fast Setting Hydraulic Cementitious Product

DESCRIPTION

CLI Crack Fill (CF 33) is fast setting, hydraulic cement product formulated to stop leaks in concrete andmasonry surfaces. It is particularly effective for stopping the flow of running water. CLI Crack Fill (CF 33) is ready to use and requires only the addition of water before plugging and sealing cracks.

ADVANTAGES

- Plugs wet cracks in concrete and masonry surfaces to seal out water.
- Stops water seepage at floor and wall junctions.
- Stops running water, reducing damage.
- Expands as it sets for a water tight repair.

APPLICATION

- Basement repairs
- Manhole repairs
- Concrete pipe and bell repairs
- Anchoring bolts and hand rail setting

APPLICATION METHODOLOGY

- Ensure that the concrete is clean and rough. Remove all oil, dirt, debris, paint and unsound concrete.
- Prepare surface mechanically by using a scabbler or wire brush.
- Use vacuum cleaner or pressure washing to ensure thorough cleaning and removal of all residue.
- CLI Crack Fill (CF 33) does not requires any special bonding procedures.
- Ensure the temperature ranges between 16 ^{0}C – 32 ^{0}C.
- Add CLI Crack Fill (CF 33) in appropriate amount of water for the batch size
- Mix with a drill and “jiffy” mixer for about a minute.
- Place the mix immediately on the leaking concrete / masonry surface.
- In case of cracks, widen out and clean cracks to at least 15 mm x 15 mm deep, apply CLI Crack Fill (CF 33) to plug the prepared crack with a pointing trowel and slick off the surface. Prepare a cove at the junction. If more time is desired when preparing the cove, mix the CLI Crack Fill (CF 33) with ice water.
- In case of running water, Dam up running water. Prepare all cracks properly and, if possible, relieve excess hydrostatic pressure by drilling a relief hole or by chiseling out the crack at its very lowest point. Mix an adequate quantity of CLI Crack Fill (CF 33). After mixing, immediately place the plug of CLI Crack Fill (CF 33) in your hand and hold it until it suddenly begins to get warm. This will take 2 –3 minutes from the start of mixing. At this point, speedin working is essential. Force the CLI Crack Fill (CF 33) plug into the hole or crack which is to besealed off. Start filling cracks or holes at the top. To close the final opening and seal off a stream of water, make sure the CLI Crack Fill (CF 33) plug is starting to warm up. At that moment force into the hole and exert pressure either with your hand or trowel for a full 5 minutes or longer to assure setting of the plug. In some cases where thewater is extremely cool, it mat be necessary to hold the plug in place for a little longer.
- In case of Bolt and Hand Rail Anchoring, use a star drill to make a hole approximately 1 – ½”(38 mm) larger than the anchor. Mix enough CLI Crack Fill (CF 33) to fill the area and pour and tamp it into place around the anchor.
- Finish CLI Crack Fill (CF 33) to the desired texture to match the surrounding concrete. Do not
- Add additional water to the surface during the finishing operation. Use CLI AWP asfinal waterproofing coating for additional protection against water seepage and to improve the appearance and uniformity of the repair area.
- CLI Crack Fill (CF 33) requires no special curing procedures.

CHARACTERSTICS

Physical Appearance	Cementitious grey powder
Mixing ratio of water	0.18
Compressive strength, Kg / cm2	
• 1 day	170
• 7 day	280
• 28 day	320

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 1 kg and 25 kg Pack.

STORAGE AND SHELF LIFE

Keep in a cool and 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

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CLI Crack Seal (AC 100)

Crack Sealer

DESCRIPTION
CLI Crack Seal 100 is a crack sealer that cures to remains flexible to accommodate thermal or structural movement in small cracks.

ADVANTAGES
- Flexible material that allows for small movement
- Remains flexible in all normal climates
- One part product allows a long pot life for ample installation period
- Waterproof

APPLICATION
- Internal and External masonry wall cracks

APPLICATION METHODOLOGY
- Surface must be clean and sound. All oil, dirt, debris, paint and any other material that might be a bond breaker must be removed. The final step in cleaning should be the complete removal of all residues with a vacuum cleaner or pressure washing.
- Widen the cracks wherever possible in V Groove shape.
- The crack must be pre-dampended for proper adhesion of the PlastiSeal.
- Requires no pre –mixing.
- Use the material directly from the container.
- Place CLI Crack Seal 100 directly into the damp crack with a spatula or putty knifes and level with the surface. For deeper cracks, penetration and shrinkage are observed. In such cases repeat the application till the crack is leveled. For hairline cracks wherever widening is not possible, thin CLI Crack Seal 100 with potable and soft water to enable penetration.

CHARACTERSTICS

Physical Appearance	WhiteThixotropic Paste
Full cure, days	7
Chemical Resistance – fully cured samples	
• Water	Excellent
• Gasoline	Excellent
• Oil	Excellent
• Salts (5% Calcium Chloride)	Excellent

CLEANING & MAINTENANCE
Clean tools and equipment with water before the material hardens

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

PACKING
Available in 1 kg pack

STORAGE AND SHELF LIFE
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CLI MC 100

High Performance Cementitious Repair Micro Concrete

DESCRIPTION

CLI MC 100 is a versatile, one part, patching and repair compound for repair project of all types. Requiring only the addition of water, CLI MC 100 is a high strength material, which is easy to use with an extended working time for ease of placement. It is similar in appearance to concrete and is suitable for use as a topping, patching mortar or repair material on horizontal surfaces.

ADVANTAGES

- Can be used as a pumpable or pourable repair micro concrete where access is restricted.
- Highly fluid to allow for placement without vibration.
- Compensates for shrinkage by expansion.
- Premixed, ready to use.
- Long working time
- High strengths with low permeability.
- Chloride free.

APPLICATION

- Parking decks
- Floor toppings
- Joint repairs
- Equipment bases
- Pedestals
- Pavements

APPLICATION METHODOLOGY

- New concrete must be a minimum of 28 days if an epoxy adhesive will be used to the topping. If a slurry bond coat is used, the concrete must be a minimum of 3 days old.
- The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scrabber, brush hammer, shot blast or scarifier which will give a surface profile of a minimum 1/8" (# mm) and expose the large aggregate of the concrete.
- The final step is cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing. All concrete must possess an open surface texture with all curing compounds and sealers removed. Several hours prior to placing, the concrete substrates should be saturated with clean water. Remove any standing water. Alternatively, use a bonding system.
- After the surface has been prepared, prime all area with either a slurry coat of CLI SBR 41C or an epoxy bonding agent such as CORR-BOND. The primer bonding agent must be ordered separately.
- Edges should be saw cut to ¼ " (6 mm) deeper than the topping thickness and repair to provide a locked in reinforced edge. Moving joints as in the case of expansion joints should be brought up through the repair by saw cutting or with the use of divider strip.
- Exposed rebar may be treated with an anti- corrosion coating such as CORR-BOND or CLI Prime Zn. Remove all loose rust and scaling, preferably by sandblasting to white metal prior to coating the rebar.
- For repair sections generally deeper than 100 mm it may be necessary to mix the CLI MC 100 with properly graded 5 mm to 12 mm silt free aggregate to minimize temperature rise. The quantity of aggregate required may vary depending on the nature and configuration of the repair location. It should be a max. of 8 kg pea gravel per bag of CLI MC 100.
- Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 15^0 C – 32^0 C.
- Add the appropriate amount of water for the batch size and then add the dry product. Mix a minimum of three minutes.
- If pea gravel is to be added, do so now and mix an additional 2-3 minutes. The mixed product should be transported to the repair area and placed immediately.
- Discharge material from mixer and place. For patching with a trowel, come–a-long, or square tipped shovel to a thickness that matches the surrounding concrete.
- Finish to desired texture. On large floor areas, used screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.
- If placed by pump, standard concrete pumping practice should be followed.
- If poured in the form work, avoid air entrapment by pouring from one side only.
- Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation.
- To prevent surface cracking, cure the floor with curing compound. In hot, windy or direct sunlight situations, re-wet the surface after the curing compound has dried and cover with polyethylene for a minimum of three days. If curing compound is not desired, wet cure for a minimum of three days.

CHARACTERSTICS

Compressive Strength Age, Mpa	
• 1 day	10
• 3 days	30
• 7 days	40
• 28 days	50
Flexural Strength 28 days, Mpa	6
Physical Appearance	Cementitious grey powder

YIELD

25 kg bag yields 0.0125 m^3 of CLI MC 100 when mixed with 3.875 L of water.

CLEANING & MAINTENANCE

Clean all tools immediately after use with Xylene. Do no allow the material to harden.

HEALTH & SAFETY

• Use goggles and hand gloves during application.
• Clean hands with warm soap water after application.

PACKING

Available in 25 kg pack.

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 N 18

Two Component Epoxy Bonding Adhesive / Primer for Concrete

DESCRIPTION
CLI N 18 is a 100 % reactive, two component material designed as a moisture insensitive adhesive and primer for bonding old concrete with new concrete.

ADVANTAGES
- More flexible than high modulus systems to take additional movement.
- Excellent adhesive for bonding together concrete, steel, or wood materials
- Bonds fresh concrete toppings to harden old concrete slabs.
- Protects concrete substances against chemical attack including most acids and caustics.
- May be extended with sand or aggregate for thick applications and mortar repairs.
- Designed for use at temperatures of 10 degrees and above

APPLICATION
- Bonding old concrete with new concrete / flooring.
- Priming, Sealing
- Bonding Toppings
- General Adhesive
- Floor and Joint

APPLICATION METHODOLOGY
- Ensure that concrete surface is clean, sound, rough and is free from any standing water, oil, dirt, debris, paint, unsound concrete or other contaminants.
- Ensure that temperature is in the range of 16^0 C – 32^0 C.
- Mix Comp B (Resin) to Comp A (Hardener) – not the reverse - for 2-3 minutes using drill and mixing prop.
- Apply CLI N 18 by roller, squeegee or airless sprayer in a uniform fashion. Do not allow the material to puddle. Extremely porous surfaces may require a second coat for proper ultimate performance.
- CLI N 18 can be used as moisture insensitive primer where the concrete moisture is between 5 – 7 %

CHARACTERSTICS

Theoretical Coverage, grm/m^2/coat	
• As primer	200 - 250
• As Bonding Agent	250 - 300
Water Absorption, %	< 0.2
Gel Time	30 minute
DFT in microns	150-200

CLEANING & MAINTENANCE
Clean tools and equipments with solvent such as Xylene, or toluene.

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 2 kg x 10 kg carton box.

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.

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CLI N 18 Mortar

Three Component Epoxy Mortar

DESCRIPTION

CLI N 18 Mortar is a three component system consisting of an epoxy resin, hardener and selected graded filler. This system is tough and resilient when compared to concrete. It has excellent characteristics for floor repairs or re-surfacing. It is a 100% solid system, which is solvent free. CLI N 18 Mortar mortar may be applied at thickness of 5 – 10 mm. It confirms ASTM C-811-90 Type II & IV, Grade 1, Class B & C

ADVANTAGES

- Provides non-absorbent, non-dusting and chemical resistant surface.
- Dries in eight hours to allow foot traffic
- High tensile and high compressive strength
- Solvent free and no VOC complaint.

APPLICATION

- Warehouses
- Dairies
- Service Stations
- Chemical Plants
- Metal treating plants
- Machinery service areas
- Food processing and rendering plants
- Concrete runways
- Joint arises in highways

APPLICATION METHODOLOGY

- Ensure that concrete should be at least 28 days old.
- Ensure that surface is sound and free from dust, laitance and other contaminants
- Remove any oil, grease etc by acid etching or by burning.
- Allow the surface to dry.
- Prime the textured surface with suitable primer by brush or roller.
- Mix Comp B (Hardener) into Comp A (Resin) (not the reverse) thoroughly by using a drill mixer fitted with suitable paddle till a homogenous mix is obtained. After thoroughly xing, add Comp C (Filler) and mix for additional 2 minutes or until all aggregate pieces are completely covered by the epoxy.
- Apply immediately.

CHARACTERSTICS

Compressive Strength, mpa	
• 1 day	40 - 50
• 7 days	70 - 80
Working Time, Minimum, 30^0C	30 – 40
Flexural Strength, mpa	25 - 27
Tensile Strength, mpa	14 - 16

CLEANING & MAINTENANCE

Clean all tools immediately after use with Xylene. Do no allow the material to harden.

HEALTH & SAFETY

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

PACKING

Available in 10 kg pack.

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.

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CLI N 20 Putty

Three Component Epoxy Putty

DESCRIPTION
CLI N 20 Putty is a three component epoxy based putty made of resin, hardener and some special filler. It is a non-shrink epoxy based repair material.

ADVANTAGES
- Excellent impact resistance
- Good mechanical properties
- Good bonding properties with concrete, Kota stone, steel etc.
- Non-Shrink

APPLICATION
- Sealing of crack for concrete, metal and wooden surface.
- Protection of concrete, steel, marine structure as protective coating.
- Making up undulations of concrete surface before coating.

APPLICATION METHODOLOGY
- Ensure that concrete should be at least 28 days old.
- Ensure that surface is sound and free from dust, laitance and other contaminants
- Remove any oil, grease etc by acid etching or by burning.
- Allow the surface to dry.
- Mix Comp A, B & C in the ratio of 0.24 : 0.14 : 0.62 ratio by weight.
- Mix thoroughly till the colour of the mix is uniform.
- Mix only that quantity which can be applied within the pot life of the mixed material.
- On the prepared surface, apply mixed material using spatula or trowel.

CHARACTERSTICS

Form	Grey Paste
Mix Ratio	0.24 : 0.14 : 0.62
Density, kg/L	1.65
Pot Life, hr @ 30^{O}C	2

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

PACKING
Available in 4 kg x 20 nos pack

STORAGE AND SHELF LIFE
Keep in a cool and 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 RP 21C

2K High Build Polymer Modified Cementitious Reinstatement Mortar

DESCRIPTION

CLI RP 21C is light weight, cementitious, polymer modified repair mortar to provide high build properties as well as excellent resistance to chloride ions and the diffusion of acidic gases such as carbon dioxide. It contains special preblended cements, graded sand and chemical additives which thermally combine to provide a product that has excellent compatibility with concrete as well as outstanding water repellent properties. CLI RP 21C can be applied in thicknesses from 10mm to 40mm in vertical and 25mm in overhead situations.

ADVANTAGES

- In vertical and overhead situations, a high thickness can be built up.
- Extremely low permeability provides maximum protection against carbon dioxide and chlorides.
- Excellent bond to the concrete substrate.
- Shrinkage compensated.
- No side batching required, supplied in pre-weighted pre-packed condition.
- Only addition of water at site to be made while mixing the powder and liquid parts.
- Contains no chlorides.

APPLICATION METHODOLOGY

- Saw cut or cut back the extremities of the repair locations to a depth of at least 10mm to avoid feather edging and to provide a square edge. Break out the complete repair area to a minimum depth of 10mm up to the saw edge.
- Thoroughly clean both surfaces which are to be stuck together to ensure removal of dust and other loose particles from concrete, plaster or other surfaces.
- Surface should be moistened before application of coating. But standing water should not be allowed.
- Apply primer in primed surface.
- For 1 bag application, Place about 2.75 L of drinking quality water in the mixer and add the supplied liquid polymer part and mix with the machine in operation add CLI RP 21C powder and mix for 2 to 3 minutes. Depending on the ambient temperature and the desired consistency, a small additional amount of water may be added up to a maximum total water content of 3.25 L.
- Apply the mixed CLI RP 21C to the prepared substrate by gloved hand or trowel. Thoroughly compact mortar on to the primed substrate and around the exposed reinforcement.

CHARACTERSTICS

Compressive Strength, N/mm^2	
• 3 day	12
• 7 days	16
• 28 days	20
Water Absorption, $ml/m^2/sec$	
• 10 min	0.01
• 2 hrs.	0.005
Coefficient of thermal expansion, ^oC	$7 – 12 \times 10^{-6}$
Flexural Strength, N/mm^2,28 days	4.5
Tensile Strength, N/mm^2,28 days	1.7
Setting Time, hr	
• Initial setting	2
• Final setting	5
Fresh Wet Density, kg/m^3	Approx 1600

CLEANING

- Clean all tools immediately after use with clean water. Do not allow material to harden.

HEALTH & SAFETY

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

PACKING

Available in 25 kg bag.

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 RP 34

Two Component Polymer Modified Cementitious Repair Mortar

DESCRIPTION

CLI RP 34 is a polymer modified cementitious mortar designed for use as concrete repair mortar at thickness of 13 mm to 50 mm. CLI RP 34 is formulated to incorporate liquid latex technology, which provides excellent durability under freeze-thaw cycling as well as reducing ingress by water and deicing salts. CLI RP 34 is easy to work with at high slump consistency and provides a fast setting abrasion resistant repair.

ADVANTAGES

- Provides a strong, wear resistant patch
- Excellent durability under freeze / thaw cycling
- Resists penetration of water and deicing salts for good substrate protection.
- Excellent bond to properly prepared sound concrete
- Easy to use two part system.
- Suitable for both indoor and outdoor use
- High slump formula for easy handling

APPLICATION

- Parking decks / docks / ramps
- Joints / curbs / gutters
- Marine structures
- Pavements and walkways

APPLICATION METHODOLOGY

- Ensure that concrete surface is sound, even, firm, and 28 days cured with moisture content not exceeding 5%, if epoxy adhesive is used to bond topping. In cases of use of slurry bond coat, the concrete should be at least 3 days old.
- Ensure that the surface is sound and free from dust, laitance and other contaminants.
- Remove dust, flakes, oil / grease by washing with liquid detergent, followed by acid wash or by burning and then vacuum clean or pressure wash.
- Acid etching may be done only in cases where mechanical preparation is impractical. In such cases, use epoxy bonding agent.
- All concrete must possess an open surface texture with all curing compounds and sealers removed.
- Saw cut edges to ¼" (6 mm) deeper than the topping thickness and the floor notch at the edge of repair to provide a locked in, reinforced edge. Chip the edge with a hand held chipping hammer to provide the wedge shaped notch. Moving joints as in the case of expansion joints should be brought up through the repair by saw cutting or with the use of divider strip.
- Prime all area with either a slurry such as CLI N 18 after the surface has been prepared. If the substrate has been prepared by acid etching, use of epoxy primer is highly recommended. The primer bonding agent must be ordered separately.
- Small quantities of concrete coat may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large job. Add the appropriate amount of concrete coat liquid for the batch size and then add the dry product. Mix a minimum of 3 minutes. Add pea gravel (if appropriate) and mix for an additional 2 minutes. The mixed product should be transported to the repair area and placed immediately.
- Mix concrete coat as instructed but add an additional 0.6 L of water per unit of the mix. Broom the slurry coat on to the prepared and re-dampened concrete. Apply the concrete coat topping before the slurry coat has dried.
- Use CLI N 18 (LV or MV) epoxy for repairs.
- Discharge material from mixer and place onto floor. For patching, spread with a trowel, come-a-long, or square shovel to a thickness that matches the surrounding concrete. Finish by hand troweling. On large floor areas, use screed strips as guide in combination with vibratory screeding to level. Finish by hand trowelling.
- Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation. If additional liquid is required, use concrete coat liquid.
- Proper curing procedures are important to ensure the durability and quality of repair. To prevent surface cracking, cure the floor with a high solids, curing compound. If curing compound is not desired, wet cure for a minimum of 3 days.

CHARACTERSTICS

Compressive Strength (50 mm cubes)

• 1 day	21 MPa
• 3 days	28 MPa
• 7 days	41 MPa
• 28 days	50 MPa

Flexural Strength, 28 days	12 MPa
Bond Strength	
• 14 days	11 MPa
• Unit Weight	2083 kg/m^2

HEALTH & SAFETY
- Do not use solvent based curing compounds on this products
- Do not use material at temperature below 7 ^oC
- Use gloves, mask during application of the adhesive.
- Skin contact should be cleaned with acetone or IPA followed by soap water.
- Eye contact needs immediate medical attention

CLEANING & MAINTENANCE
- Clean all tools immediately after use with xylene. Do not allow material to harden.

PACKING
Available in 25 kg Bag.

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.

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CLI SBR - 41C

Bonding Admixture For Adhesion & Repairs Of Concrete Structures

DESCRIPTION

CLI SBR - 41Cis a carboxylated styrene butadiene copolymer latex admixture that is designed as an integral adhesive for slurry bond coats, mortars and concrete to improve strength and weather resistance.

ADVANTAGES

- Withstands chloride ion diffusion & sulphate/CO_2 attack due to marine or industrial weather.
- Improves bond strengths to hardened concrete.
- Dense, impermeable, mortar for column & beam repairs.
- Reduces rate of corrosion while applied on steel bars.
- Reduces cracking through increased mortar flexural strength.
- Increases mortar wear resistance under rubber wheeled traffic.
- Increases mortar tensile strength.

APPLICATION

- Toppings, patches and leveling courses on concrete structured members
- Thin sets, terrazzo, stucco and bonding slurries.
- General reconstruction work and latex modified overlays.
- Passivating coat on reinforcement.

APPLICATION METHODOLOGY

- Ensure that concrete is 3 days old if CLI SBR - 41C is used as a slurry bond coat. Do not place slurry coat on standing water.
- Ensure that the concrete is clean and rough. Remove all oil, dirt, debris, paint and unsound concrete.
- The surface must be prepared mechanically using a scabbler, bush hammer, shot blast or scarifier which will give a surface profile of a minimum 3 mm and expose the large aggregate of the concrete.
- Use vacuum cleaner or pressure washing to ensure thorough cleaning and removal of all residue.
- Ensure all concrete possess an open surface texture with all curing compounds and sealers removed.
- Pre-wet all areas to reduce moisture loss. Do not place product on standing water.
- For bonding toppings with this product, CLI strongly recommends using a slurry coat rather than using this product as a primer by itself.
- Prime all prepared surface areas with a slurry coat before applying the topping.
- Follow mixing using drill machine fitted with paddle or small mixer machine. Place the topping on the slurry coat before the slurry coat dries out.
- Slurry Application: Spread the slurry with a stiff bristle broom until the suggested coverage rate is achieved.
- Topping Application: For patching, spread with a trowel, come-a-long, or a square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand trowelling.
- On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.
- Proper curing procedures are important to ensure the durability and quality of the repair or over layment. To prevent surface cracking, a moist cure should be maintained for 24 hours, upto 3 days.
- Structural repairs for columns & beams can be executed using polymer mortar. This is a dry pack method to build up the spalled areas of the cover zone concrete and has high compressive and tensile strengths.

CHARACTERSTICS

Physical Appearance	Milky white liquid
% Solid Content	42 % + or - 2

CLEANING

- Clean all tools immediately after use with clean water. Do not allow material to harden.

HEALTH & SAFETY

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

PACKING

Available in 5 L, 20 L & 200 L drum.

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
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.

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