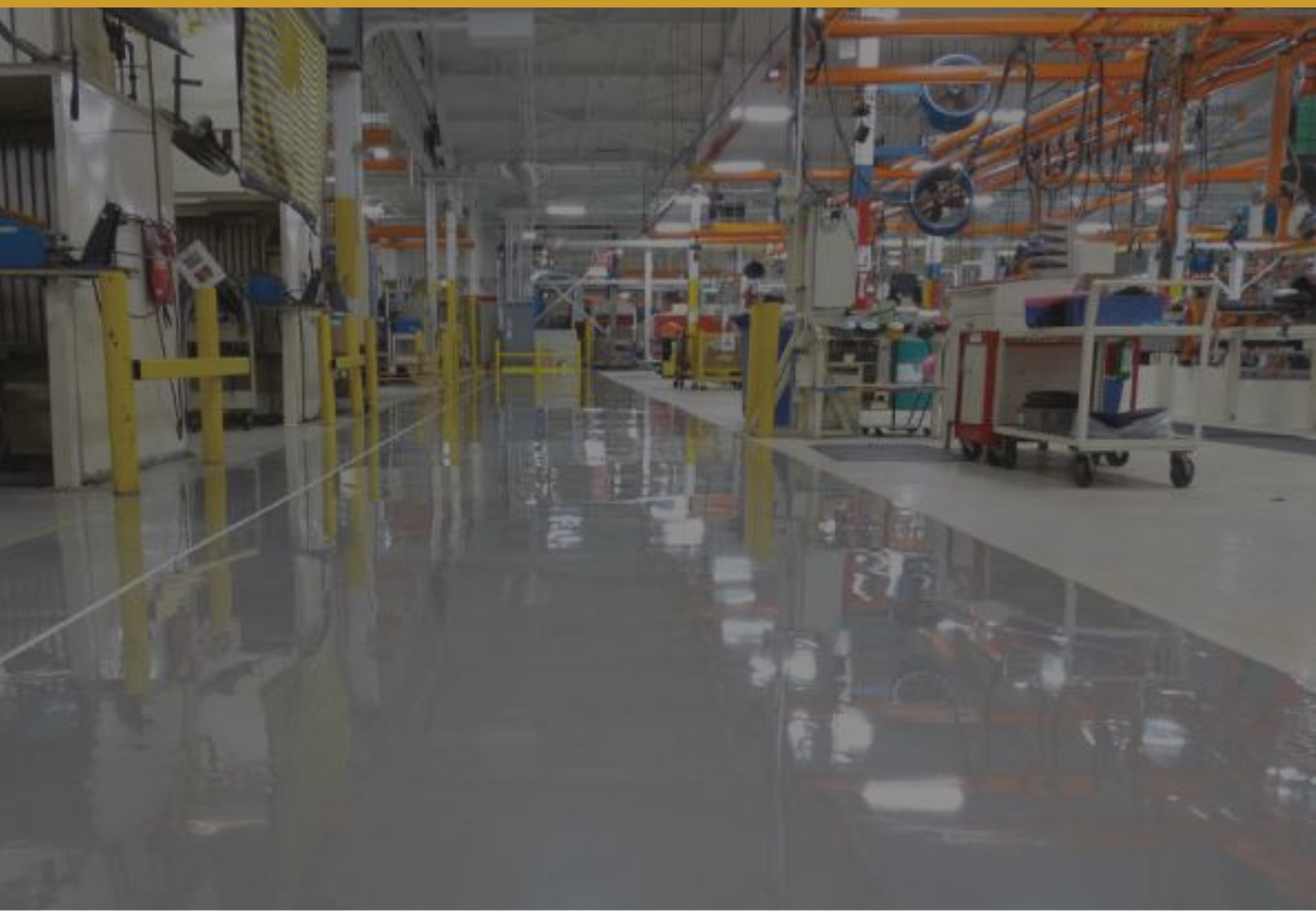
Carbolink's Solutions for :

Self Leveling Compounds



Self Leveling Compounds Product Specifications & Technical Data Sheets(TDS)

India's Most Preferred
Construction Chemical Manufacturing Brand

Carbolink India Pvt. Ltd.
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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

Self Leveling Compounds

Self Leveling Compound is a rapid setting and hardening, slump free mortar which is ideal for external or internal repairs. The mortar sets and hardens rapidly to give a repair of exceptional strength and hardness. It si ideal for the rapid repair of internal concrete, screeds, renders and concrete steps. Its other applications include forming ramps, falls and coves, patching around fittings/pipework, and filling cracks and gaps .

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

Here is our Self Leveling Compound Products range:

R - 17F

Rapid Setting And Hardening External Repair Mortar

FEATURES
For infilling holes around fittings and for patch work on wall and floor areas
For internal and external use
Rapid hardening - walkable in 2 - 3 hours
For repairing stair treads and risers
To produce gradients for ramps
To smooth wall and floor areas from 2 to 30 mm thick
Easy to smooth and float
Stress and crack free
Wearing surface in lightly trafficked areas
Ideal for patch repairs prior to the application of suitable damp proof membranes

DESCRIPTION
R - 17F is a rapid setting and hardening, slump free mortar which is ideal for external or internal repairs. The mortar sets and hardens rapidly to give a repair of exceptional strength and hardness. The mixed mortar sets after 20 minutes and can be trafficked after only 2 - 3 hours at 27± 1ºC. R - 17F is ready to receive floor coverings that are not sensitive to moisture, such as ceramic tiles after 24 hours at 27± 1ºC.

USE
R - 17F is ideal for:-
- Repairing and refacing external concrete stairtreads and risers, brickwork (not lightweight concrete), renders and concrete floors.
- Filling and patching cracks in walls and floors.
- Making good around pipework, door and window frames.
- Forming ramps from 2 mm to 30 mm in thickness.
- Making patch repairs prior to the application of a damp proof membrane
- Forming coves. R - 17F may be used as a wearing surface in lightly trafficked areas. For heavy duty areas, consult CLI for guidance.

SURFACE PREPARATION
R - 17F can be applied to dry or moist substrates providing they are hard and the surface is sound and free of dust, grease, oil and other barriers to adhesion. Worn or trafficked surfaces should be mechanically prepared to remove contamination and expose a clean surface to ensure good adhesion. Very dense, smooth, impervious surfaces should be primed with sand blinded CLI IF -1 E Solvent Free Epoxy Primer. Priming is not usually necessary on concrete, cement/sand, brickwork etc., unless the surface is extremely porous. On absorbent substrates, the mortar must be initially applied firmly in a thin layer, after that, apply the mortar to the required thickness.

MIXING
The R - 17F powder is added to the required amount of clean water in a clean mixing container and mixed thoroughly to obtain a lump free and slump resistant mortar.

The mix proportions are:-
25kg R - 17F powder to 6 - 7 litres of water,
11kg R - 17F powder to 2.7 - 3 litres of water.
Avoid using too much water. The mixed morta has a working time of 15 to 20 minutes at 27 ± 1ºC, this time being extended at lower, and reduced at higher temperatures.
A 46 can be applied from 2 mm to a maximum of 30 mm in thickness.

APPLICATION
Repairs
Apply the mortar with a trowel to holes, cracks and damaged areas, ensuring that the mortar "wets" the surface by trowelling in firmly, leaving the repair proud. After about 10 minutes trim off excess and finish off with a wet trowel, sponge or sponge float to obtain a smooth surface. This smoothing operation needs to be completed within 15 minutes of application. As soon as the R - 17F repair has hardened, the surface of the floor, stairtread etc., can be levelled, if necessary, with the appropriate CLI sub-floor smoothing compound.

SMOOTHING AND REFACING
Apply the mixed mortar with a trowel to the required thickness taking into account the short working time. The material may be finished with a wet trowel after 10 to 15 minutes to provide a finish suitable for direct application of tiles or stone. Apply at temperatures above 5°C. The finished surface has to be protected against direct sunlight and draughts which could lead to rapid drying of the surface.

CLEANING
R - 17F can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

PROPERTIES
The values shown are typical of results obtained in the laboratory at 27 ± 1ºC. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

R - 17F	**@ 27 ± 1ºC**
Bulk density of powder	approx. 1.3kg/litre
Weight of fresh mortar	approx. 1.8kg/litre
Working Time	approx. 15 minutes

Compressive Strength

After 1day	10.0 N/mm²
After 7 days	15.0 N/mm²
After 28 days	20.0 N/mm²

Tensile Bending Strength

After 1day	2.0 N/mm²
After 7days	4.0 N/mm²
After 28days	6.0 N/mm²
Freeze thaw and salt resistant	Yes
Suitable for Underfloor Heating	Yes

COVERAGE ESTIMATES

Pack size	Coverage
Approximately 1.4kg R - 17F powder/m²/mm.	
11kg	Approximately 8 litres (1/4 cu ft) of mortar
25kg	Approximately 18 litres of mortar

A litre of mortar will cover 0.5 m² at a thickness of 2 mm.
NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE
R - 17F must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging. The activity of the reducing agent (added to control the level of soluble Chromium VI) will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2ppm) soluble Chromium VI of the total dry weight of the cement content of this product. R - 17F must not be used after the end of the declared storage period.

PRECAUTIONS
R - 17F is considered non-hazardous in normal usage. The presence of cement in the product gives an alkaline mortar which may cause some local irritation if prolonged contact with the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes. may cause some local irritation if prolonged contact with the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes.

DISPOSAL/SPILLAGE
Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

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.

R - 61F

Rapid Drying And Hardening Internal Repair Mortar

FEATURES
Receives finishes after 1½ hours regardless of thickness
Slump free - ideal for vertical and horizontal repairs
Ideal for the rapid repair of internal concrete, screeds, renders and concrete steps
Other applications include forming ramps, falls and coves, patching around fittings/pipework, and filling cracks and gaps

DESCRIPTION
R - 61F is a rapid drying and hardening, slumpfree mortar for internal repairs. The mixed mortar sets after 12 minutes and can be trafficked after 1½ hours at 27±1°C.

USE
R - 61F is ideal for:-
- Repairing and refacing internal concrete - stairtreads and risers, cement and sand screeds, concrete floors.
- Filling and patching cracks in walls, ceilings and soffits.
- Making good around pipework, door and window frames.
- Forming ramps from a feather edge to normal screed thicknesses.
- Forming coves.
- If using R - 61F as a wearing surface a suitable covering / coating is required.

SUBSTRATE PREPARATION
R - 61F can be applied to dry or moist screeds providing they are set and hardened and the surface is sound and free of dust, grease, oil and other surface contamination. Worn or trafficked surfaces should be abraded (wire brush, angle grinder etc.) to remove contamination and expose a clean surface to ensure good adhesion. Very dense, smooth impervious surfaces should be primed with CLI N 18 Primer. Priming is not usually necessary on concrete, cement / sand, brickwork etc, unless the surface is extremely porous. Direct to earth sub-floors must have an effective damp-proof membrane. Such as CLI SLP - 14E Surface Damp Proof Membrane.

MIXING
The R - 61F powder is added to the required amount of water in a clean mixing container and mixed thoroughly to obtain a lump-free and slump-resistant mortar.

The mix proportions are:-
11kg R - 61F powder to 2½litres of water: i.e. approximately 3 part powder to 1 part water by volume.

Avoid using too much water. The mixed mortar has a working time of 10 to 15 minutes at 27±1°C, this time being extended at lower, and reduced at higher temperatures.

For thicknesses over 5mm, but not exceeding 20mm, the R - 61F mortar can be bulked out with 1/3 volume of sharp sand (0 - 5 mm grading), or up to an equal volume of 3 mm single sized aggregate / chippings. For localised thicknesses exceeding 20 mm, e.g. filling deep holes and cracks, incorporate up to an equal volume of 10 mm single sized coarse aggregate, in the R - 61F mortar.

APPLICATION
Repairs
Apply the mortar with a trowel to holes, cracks and damaged areas, ensuring that the mortar "wets" the surface by trowelling in firmly, leaving the repair proud. After about 15 minutes trim off excess and finish off with a wet trowel, sponge or sponge float to obtain a smooth surface. As soon as the R - 61F repair has hardened, the surface of the floor, stairtread etc., can be levelled, if necessary, with an CLI sub-floor compound.

Smoothing and Refacing
Apply the mixed mortar with a trowel to the required thickness taking into account the short working time. The material may be finished with a wet trowel after 15 to 20 minutes to provide a finish suitable for direct application of floor covering. High aggregate content mixes may require a second application of 'neat' R - 61F. Apply at temperatures above 5°C.

CLEANING
R - 61F can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

PROPERTIES
The values shown are typical of results obtained in the laboratory at 27 ± 1ºC. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

R - 61F	**@ 27 ± 1ºC**
Bulk density of powder	approx. 1.4kg/litre
Weight of fresh mortar	approx. 1.9kg/litre
Initial set (Vicat) DIN 1164	approx. 15 minutes
Final set (Vicat) DIN 1164	approx. 60 minutes

Compressive Strength

After 1day	15.0 N/mm²
After 7 days	30.0 N/mm²
After 28 days	40.0 N/mm²

Flexural Strength

After 1day	3.5 N/mm²
After 7days	4.5 N/mm²
After 28days	7.0 N/mm²

COVERAGE ESTIMATES

Pack size	**Coverage**
11kg	Approximately 7m² @ 1mm thickness(7 litres of mortar)

NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE
R - 61F must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored Correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

PRECAUTIONS
R - 61F is considered non-hazardous in normal usage. The presence of cement in the product gives an alkaline mortar which may cause some local irritation if prolonged contact with the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes.

DISPOSAL/SPILLAGE
Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

CONDITIONS OF SALE
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NOTE
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R 213 CE

Epoxy Modified Cementitious Floor Screed

GOOD PERFORMANCE, SUPPLIED AS THREE PARTS IN A PRE-MEASURED PACK FOR EASE OF ON SITE MIXING AND USE

FEATURES

Toxic free, solvent free, interiors application
Excellent resistance to wear & abrasion
Excellent slip resistance to vehicular & foot traffic
Suitable with cementitious toppings
Suitable on damp concrete surface
Provides combining strength of both cement & epoxy

DESCRIPTION

A specialist applied, self-levelling, epoxy modified cementitious floor screed finish combining outstanding wearing properties with chemical resistance and decorative properties. Ideally suited in areas where a seamless, joint free finish is required and maximum cleanliness is essential. Clean rooms, and general light industry are just some of the environments that can benefit from this system. When over coated with Epoxy coating like CLI R 35 CE Solvent Free High Build Epoxy Coating, the chemical resistance properties are enhanced. It is also suited for the areas where high hygiene is required.

SUBSTRATE PREPARATION

The concrete surface must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues etc. that will inhibit adhesion to the substrate.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scabbling, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to application of R 213 CE. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.
NOTE : Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface. New concrete slabs must be allowed to cure for at least 14 days.

PRIMING

All areas of concrete surfaces to be treated with R 213 CE must first be primed with a CLI N 18 Moisture Insensitive Primer. Two or more coats of primer may be required depending upon the condition and the porosity of the concrete substrate. Poorly primed surfaces may lead to blistering or pinholes in the cured resin. Before applying R 213 CE make sure the primer is dried for 24 hours.

MIXING

The individual contents of the R 213 CE should be thoroughly stirred before being mixed together. The entire contents of the Part A and Part B should be poured into a larger mixing vessel to incorporate the Part C. Mix thoroughly for 30 seconds in a medium duty drilling machine (600 rpm). Finally the Part C is added to the same container. The mixing of all the three should continue for 1 minute do not mix for more than 1 minute. Particularly for mixing R 213 CE do not use heavy duty or high speed drill machine (600 - 1000 rpm).

APPLICATION

The mixed R 213 CE material should be applied to the prepared and primed surface without delay using a gauged notched trowel or depth set rake to achieve the desired thickness. One kit application should be completed (Trowel & Rolling) within 8 - 10 minutes at 30°C including mixing time. As soon as the R 213 CE is has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to release any entrapped air from the mix also to blend out any trowel marks. Do not use more rolling, it should be one time rolling with both direction. The work area should be protected during the installation process and during the initial curing time to ensure that no debris contaminate the surface of the resin, as this will lead to unwanted blemishes in the hardened, cured surface.

LIMITATIONS

R 213 CE should not be applied to floors that are known to have rising moisture or have relative humidity of greater than 75% at the time of application. These products should not be applied in temperatures less than 10 ^{0}C or where the ambient relative humidity is greater than 85%. Once the mixed material has exceeded its pot life, the viscosity and the characteristics of the product will change and any unused product should be discarded at this time. Do not steam, clean or use hot water above 50 ^{0}
C to wash the surface.
NOTE : All CLI products are manufactured under strict Quality Assurance procedures; however it is recommended that where colour consistency is essential, wherever possible, products from one batch should be used.

CLEANING
R 213 CE can be removed from tools and equipment by using CLI Eco Sol 205 cleaner immediately after use. Any hardened material will need to be removed mechanically.

PROPERTIES
The values shown are typical of results obtained in the laboratory at 27 ± 1 ^{0}C. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

R 213 CE	**@ 27 ± 1ºC**
Pot life	30 mins
Mixed Density	1.77 - 1.82 gram/cc
Initial hardness	24 hours
Full cure	7 days
Application Thickness	2 - 4 mm

BOND STRENGTH

after 7 days	>1.5 N/mm²
After 28 days	>2.5 N/mm²

COMPRESSIVE STRENGTH

after 7 days	26.00 N/mm²
after 28 days	31.00 N/mm²

TENSILE STRENGTH

after 28 days	3.8 N/mm²

FLEXTURAL STRENGTH

after 28 days	8.00 N/mm²

SHORE D HARDNESS > 70.00
after 7 days

COVERAGE ESTIMATES

Pack size	**Coverage**
26.25kg	Approximately
2 Part A 1.50kg	7.0m @ 2mm thick
Part B 4.50kg	
Part C 20.25kg	

NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE
R 213 CE has a shelf life of 6 months if kept in dry condition between 5 ^{0}C and 30 ^{0}C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS
During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye / face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE
Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

CONDITIONS OF SALE
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SL - C13

Commcercial Leveling Compound

FEATURES
Cement-based
Very low emission
Produces flat and absorbent surfaces for the subsequent laying of all kind of flooring products.
Pumpable
Self-smoothing
Almost tension free
Easy to grind
Suitable for chair castors
Suitable for underfloor heating
For thickness up to 5 mm

DESCRIPTION
SL - C13 has been especially designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as sand/cement screeds, concrete, etc.
SL - C13 contains high quality special cements and selected fillers so that, when mixed with water, a fluid easily trowelled mortar with free-flowing properties is produced. The mixed mortar can be applied up to a maximum thickness of 5mm in one application but will more normally be applied at 3 - 5 mm.

USE
SL - C13 should be used to level and smooth uneven internal sub-floors such as concrete, cement / sand screed, quarry tiles, etc. prior to the installation of resilient flooring. SL - C13 has been formulated to cater for the high humidities and high ambient temperatures that are typical in tropical climates.

SURFACE PREPARATION
Restrictions:
Not suitable for exposed wearing surfaces. For internal use only.

The surface must be hard, sound and free of dust, dirt and other barrier materials such as grease, paint, water - softenable adhesive residues or loosely adhered materials, etc.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances. Where hard, firmly adhered adhesive residues are present they should be of sufficient cohesive strength to support the applied levelling compound; a trial application is recommended to assess suitability. Do not apply SL - C13 over old residues that are softened by water.

PRIMING
CLI AT 109 Priming is mandatory especially onto very absorbent sub-floors such as concrete or cement/sand screeds. Use SL - C13 primer to seal the pores, to prevent air bubbles from rising through the applied mortar, to maintain flow life and also to promote excellent uniform adhesion to the substrate. With very smooth, dense and nonabsorbent sub-floors it may be necessary to use CLI N18 primer to ensure adequate adhesion of the subsequently applied SL - C 13.

MIXING
The use of an mixing paddle with a 10mm chuck, variable speed drill ensures thorough mixing with maximum sheer yet minimum air entrapment and heat build up. The use of mixing buckets is recommended to reduce the incidence of unmixed powder around the bottom of the bucket.

Always add correctly measured water to a clean mixing bucket first; SL - C 13 powder should then be added whilst stirring slowly. Mix steadily and thoroughly until a lump-free fluid mortar is produced. After approximately two minutes mixing scrape down the sides and around the bottom of the bucket to ensure no deposits of dry powder. Continue mixing for another minute until an even consistency is achieved.

It is not recommended to split bags of SL - C13 ; a 25kg bag should be mixed with approximately 5.5 - 6.0 litres of cool, clean water.

APPLICATION
Pour SL - C13 mortar onto the primed sub-floor and use a steel finishing trowel or float to spread the mortar and finish off. The mixed mortar will flow out and selfsmooth within the first 10 minutes of its 20 minutes working time. A 3 mm layer of SL - C13 will be walkable after approximately 3 hours at 27±1°C; this time is extended at lower and reduced where thinner applications are applied to absorbent sub-floors. Apply at temperatures above 5°C.

DRYING AND HARDENING
A 5mm layer of SL - C13 is walkable after 3 hours and ready to receive floor coverings within 48 hours at 27±1°C.

CLEANING
SL - C13 can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

PROPERTIES
The values shown are typical of results obtained in the laboratory at 27 ± 1ºC. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

SL - C13	**@ 27 ± 1ºC**
Bulk density of powder	approx. 1.3kg / litre
Weight of fresh mortar	approx. 2.0kg / litre
Working time	approx. 25 minutes
Flow life	approx. 15 minutes
Initial Set (Vicat)	approx. 40 minutes
Final Set (Vicat)	approx. 1 hour

Compressive Strength	
After 1day	4 N/mm²
After 7 days	12 N/mm²
After 28 days	14 N/mm²

Flexural Strength	
After 1day	1.5 N/mm²
After 7days	3.5 N/mm²

Ball Impact Hardness	
After 1 day	6.5 mm

Scratch Hardness	
After 1 day	1.6 mm

COVERAGE ESTIMATES

Pack size	**Coverage**
25kg	Approximately 5.5m² @ 3mm thickness

NOTE : The coverage figure is based on a flat level surface, additional material should be allowed for where the surface is rough or uneven.

STORAGE AND SHELF LIFE
SL - C13 should be stored under the same conditions as cement; store SL - C13 in cool, dry shaded warehouses. SL - C13 should not be stored in direct contact with the floor. When stored under the correct conditions SL - C13 will have a shelf life of 9 months.

PRECAUTIONS
SL - C13 contains more than 20% cement and, therefore, in line with current legislation, is classified as irritating to eyes and skin. For this reason, the following precautions should be observed. Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and keep the product out of the reach of children. Avoid generation of airborne dust during mixing.

DISPOSAL/SPILLAGE
Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

CONDITIONS OF SALE
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SLP - 11

Primer And Bonding Agent

FEATURES
Good adhesion to the porous surface
Easy to apply
Seals the substrates

DESCRIPTION
SLP - 11 is water based emulsion primer. It should be diluted with water, to prepare internal surfaces to receive cement-based levelling compounds, screeds as well as plaster -based materials, improving adhesion and inhibiting penetration of water.
It is used as a pore sealer on floor surfaces to prevent air bubbles rising through subsequently applied sub-floor smoothing and levelling compounds and to prolong their flow life and workability.

SUBSTRATE PREPARATION
The concrete or screed substrate must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc.,that will inhibit adhesion to the substrate.
All surfaces must be thoroughly mechanically prepared, cleaned and made good to ensure a good mechanical key and adhesion.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scabbling, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying SLP - 11. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.
NOTE : Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface and suitably sealed. New concrete slabs must be allowed to cure for at least 14 days.

MIXING
Shake container well before use. Dilute as required.

APPLICATION
Apply the diluted primer evenly, using a brush or broom, over the sound, clean and dust-free surface and leave to dry to a clear thin film.
Use SLP - 11 diluted 1 : 3 by volume with water for:
- priming and as a bonding agent on absorbent cement/sand screeds prior to applying CLI sub-floor

smoothing compounds.
- a bonding agent on smooth concrete walls prior to applying plaster-based compounds.
- reducing dusting of internal cement screeds or on sub-floor smoothing compounds which may have to be unavoidably left exposed to foot traffic, etc., for a limited period.

Use SLP - 11 diluted 1 : 2 by volume with water for:
- priming and as a bonding agent on power floated concrete prior to applying CLI sub-floor smoothing and levelling compounds.

Use SLP - 11 diluted 1 : 1 by volume with water for:
- priming and sealing pores on rough concrete floors to prevent air bubbles rising through the sub-floor smoothing compounds.
- mixing with CLI SLP - 11 powder as a slurry to bond an CLI SLP - 11 cement and sand screed.
- priming traces of sound adhesive residues on absorbent sub-floors.

SLP - 11, diluted with an equal volume of water, may be used as an admix with cement/sand as a slurry on a concrete floor as a bonding agent for a screed. The screed is laid before the slurry has dried.

CLEANING
Mixing and application tools should be cleaned with water immediately after use before the primer dries. Wash off Sfrom skin before drying takes place. Avoid prolonged contact with the skin.

COVERAGE ESTIMATES

Pack size	Coverage
5kg	5kg of SLP - 11 : - When diluted with 3 volumes of water is sufficient for priming approximately 100 m² - When diluted with 2 volumes of water is sufficient for priming approximately 60 m² - When diluted with an equal volumes of water is sufficient for priming approximately 35 m²

NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE

SLP - 11 has a shelf life of 12 months if kept in a dry, store in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

Aqueous synthetic based dispersion. Wash off from skin before drying takes place. Any material splashed into the eye, mouth or nose should be washed away immediately with clean water. Avoid ingestion. Non-toxic and small amounts are unlikely to cause more than temporary discomfort. If large amounts are swallowed, seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

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.

SLP - 12

Water Dispersed Epoxy Primer

FEATURES
Excellent adhesion for smooth surface
Easy to apply
Suitable for wood surface

DESCRIPTION
SLP - 12 is a two-part water based synthetic dispersion primer and bonding agent. It is non-flammable and non-corrosive. SLP - 12 forms a priming/bonding layer on most substrates, particularly smooth or dense surfaces. For interior use only. SLP - 12 can be used as a primer and bonding agent prior to the application of the CLI range of cement-based products.

Use SLP - 12 on power floated concrete, pre-cast concrete, terrazzo, glazed ceramic and quarry tiles. SLP - 12 can also be used to prime hard flooring grade asphalt, rigid metal, hard and sound paint thickness coatings, as well as traces of sound adhesive residues on dense impervious surfaces. P 82 is also suitable for priming wood and wood-based panels prior to apply cement based products

SUBSTRATE PREPARATION
Substrate to be treated with SLP - 12 must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc., that will inhibit adhesion to the substrate.

All surfaces must be thoroughly mechanically prepared, cleaned and made good to ensure a good mechanical key and adhesion.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scabbling, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying SLP - 12. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.
NOTE : Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface and suitably sealed. New concrete slabs must be allowed to cure for at least 14 days.

MIXING
SLP - 12 consists of two liquid components - one red and one white - which are mixed in the ratio of 1:1 by weight or volume to produce a pink primer. The mixed primer has a working time of approximately 1 hour, after this time any unused mixed primer must be discarded.

APPLICATION
Surfaces should be firm and free from dust, dirt and other barrier materials. Polish, wax. grease, etc.,should be removed using a suitable Degreaser.
SLP - 12 must be applied in a thin even coat using a foam or short pile paint roller, paint brush, or squeegee, taking care to prevent the formation of puddles. On smooth impervious substrates application by squeegee will quickly and effectively give a very thin film.

Leave the coating of SLP - 12 to dry to a clear, tacky film - usually 3 to 6 hours with a paint roller or brush application, 1 to 3 hours with a squeegee, depending on substrate, temperature and ventilation. If in doubt leave overnight. Once dried, the primed surface is ready for overlaying however, if left for more than 4 days, a repeat application of the SLP - 12 will be necessary

CLEANING
Mixing and application tools should be cleaned with water immediately after use before the primer dries. Wash off Sfrom skin before drying takes place. Avoid prolonged contact with the skin.

COVERAGE ESTIMATES

Pack size	
6kg 3kg of each component in plastic container	30 to 60 m² / 6kg unit

NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE
SLP - 12 has a shelf life of 12 months if kept in a dry, store in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS
Contains epoxy resin and Aliphatic Polyamine. Irritating to eyes and skin. May cause sensitisation by skin contact. Avoid contact with the eyes. Wear suitable gloves and eye/face protection. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. After contact with the skin, wash off immediately with plenty of soap and water, then apply moisturising cream. Keep out of the reach of children.

DISPOSAL/SPILLAGE
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SLP - 14E

Surface Damp Proof Membrane - Residual Moisture Suppresant

FEATURES
Suppresses residual constructional moisture in cement / sand screeds and concrete floors
Can accommodate Hygrometer readings up to 98% RH
Guarantees the early laying of all floorcoverings
Easy to apply and fast curing
Available in two colours to allow the user to visually control coverage uniformity
Provides a sandwich damp proof membrane with CLI smoothing and levelling compounds
Provides a bonding agent for CLI SLP - 14E rapid drying screeds
Can be used in conjunction with CLI Industrial Systems
Available in 6kg unit

DESCRIPTION
SLP - 14E is a solvent free, low viscosity, two component epoxy resin. After hardening the SLP - 14E produces a membrane with high inherent strength and excellent bond strength to appropriate substrates including very damp concrete and screeds. SLP - 14E accommodates hygrometer readings up to 98% RH.

SLP - 14E has excellent resistance to water, grease, oil, aqueous salt solution, dilute mineral and organic acids and organic liquids and solutions.

SLP - 14E is supplied in two colours, red for the first coat and green for the second coat, as a visual aid to application, thickness and coverage.

USE
SLP- 14E has been specifically developed to suppress residual moisture in concrete and cement/sand screeded sub-floors and provides a surface damp proof membrane where a SLP - 14E is not present in the floor or it is not effective. SLP - 14E allows for the early installation of moisture sensitive floorcoverings/coatings in fast track building operations.

MOISTURE TESTING
This should be undertaken in accordance with BS 8203.

SUBSTRATE PREPARATION
The surface to be coated must be hard, sound and free of dust, laitance, dirt and other barrier materials such as paint, lime coatings, plaster and adhesive residues. Any existing screeds or levelling/smoothing compounds not resistant to moisture must also be removed. Use suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances, followed by thorough mechanical preparation.

Concrete curing agents, admixtures and surface hardeners and the residues of these products can impair adhesion. Where doubt exists or the compatibility is unknown a trial adhesion test with the SLP - 14E should be carried out before work commences. Any incompatible curing agents, admixtures, surface hardeners or other surface contamination should be removed by scabbling, grinding, shot blasting or hot compressed air, as appropriate.
NOTE : DPM must not be used over a sub-floor containing underfloor heating.

MOVEMENT JOINTS
Any joints or cracks in the floor subject to movement, such as structural movement joints, must not be bridged with the SLP - 14E System. These joints must be treated with a flexible impervious jointing system and be carried through to the floor finish.

MIXING
The individual contents of the SLP - 14E should be thoroughly stirred before being mixed together. The entire contents of the Part B should be poured into the Part A and the two materials mixed thoroughly for at least 3 minutes using a heavy duty slow speed drill and spiral paddle. Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue and then poured back into the larger mixing vessel and re-mixed for 30 seconds. Mixing in this way will ensure product consistency and that any resin that remains in the containers after application will cure to provide for easier waste disposal.

NOTE : Once mixed, the SLP - 14E will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk, therefore the SLP - 14E should be poured directly onto the floor and distributed without delay to prepared surface using a brush or short / medium pile roller. Ensure that the entire surface is coated and that 'ponding' of the material does not occur.

APPLICATION

Apply an even coat of the mixed SLP - 14E by means of an appropriate notch trowel such as a 1.5 mm x 5mm V shaped notched trowel. Whilst the SLP-14E is still wet, the serration ridges should be flattened out with a long handled short pile paint roller, initially pre-wetted with the mixed SLP - 14E.

The thickness of application should not be less than 200 microns per coat, this can be checked using the CLI wet film thickness gauge. Coverage of 4m²/kg should not be exceeded.
NOTE : Coverage rates will be reduced by rough, porous substrates; pre-smoothing with CLI K 301 is recommended to aid application and improve yield.

NOTE : For applications on either calcium sulphate or Heated Screed Systems, consult to CLI Technical Services Department.
It is essential that the applied SLP - 14E is continuous and free from pinholes or cavities, otherwise an additional application will be necessary. Allow to cure between coats. The second coat can usually be applied approximately 8 hours after the first one.

SELF-LEVELING UNDERLAYMENTS

1 Apply an even continuous coat of mixed SLP - 14E as per application instructions and allow to cure, usually 8 hours at 27 ± 1ºC.
2 Apply a second coat of SLP - 14E as above, but at right angles to the first coat and allow to cure, usually 8 hours at 27 ± 1ºC.
3 Prime the cured SLP - 14E with CLI primer and allow to dry.
4 Apply the required CLI smoothing compound to a minimum depth of 3 mm, maximum 6 mm and allow to dry.

INSTALLING A RAPID DRY SCREED WITH NO DAMP PROOF MEMBRANE

1 Mechanically prepare the concrete slab to expose a clean, sound surface.
2 Apply an even continuous coat of mixed SLP - 14E as per application instructions and allow to cure, usually 8 hours at 27 ± 1ºC.
3 Apply a second coat of DPM as above, but at right angles to the first coat and allow to cure.
4 Apply a third coat of SLP - 14E and whilst still tacky, blind with 600 micron dry silica sand or Fine Aggregate and allow to cure.

NOTE : Apply sufficient sand to give a key free from resin. Remove excess sand by vacuum cleaner when cured.

CLEANING

All tools should be cleaned, before the SLP - 14E cures.

PROPERTIES

The values shown are typical of results obtained in the laboratory at 27 ± 1ºC. Actual performance value obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

SLP - 14E	**@ 27 ± 1ºC**
Mixing ratio	Component
(by weight)	A : B
	2 : 1
Mixed Density	1.18 gm/cc
Working Time	15 minutes
Over Coating	8 hours
Walkability	after 6 - 8 hours

COVERAGE ESITMATES

Pack size	
6kg	Approximately
Part A 4kg	24 m² per coat
Part B 2kg	at 200 microns

NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE
SLP - 14E has a shelf life of 12 months if kept in a dry, store in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS
The hardener which contains 4,4' - isopropylidenediphenol and amines classified as corrosive and the epoxy resin which contains bisphenol A/F–epichlorhydrin, can be irritating to the eyes and skin, and may cause sensitisation by contact. They are considered harmful in contact with the skin and if swallowed. During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

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Carbolink India Pvt. Ltd.
105, 1st Floor, Bhavya Sree Arcade,
Above BATA, Erragadda,
Hyderabad- 500018, INDIA
Tel : +91 2370 0524, 2381 0264
Email : info@carbolinkindia.com