

Carbolink's Solutions for Self Leveling Compounds

R - 61F



**Self Leveling Compounds 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 Compounds
- Decorative Flooring
- Floor Hardner
- Grouts & Anchors



- Industrial Flooring
- Repairing 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 is 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 Compounds systems providing the most up-to-date technologies. Carbolink India is a leader in tailored Self Leveling Compound Solutions.

Here is our Technical Description of R - 61F :





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 $27 \pm 1^\circ\text{C}$. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

R - 61F	@ $27 \pm 1^\circ\text{C}$
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/mm ²
After 7 days	30.0 N/mm ²
After 28 days	40.0 N/mm ²

Flexural Strength

After 1day	3.5 N/mm ²
After 7days	4.5 N/mm ²
After 28days	7.0 N/mm ²

COVERAGE ESTIMATES

Pack size	Coverage
11kg	Approximately 7m ² @ 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

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.

**India's Most Trusted
Construction Chemical Manufacturing Brand**



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