

Carbolink's Solutions for Self Leveling Compounds

R - 17F



**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 - 17F :





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 $27 \pm 1^\circ\text{C}$. R - 17F is ready to receive floor coverings that are not sensitive to moisture, such as ceramic tiles after 24 hours at $27 \pm 1^\circ\text{C}$.

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 mortar has a working time of 15 to 20 minutes at $27 \pm 1^\circ\text{C}$, 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 ± 1°C. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

R - 17F	@ 27 ± 1°C
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/mm ²
After 7 days	15.0 N/mm ²
After 28 days	20.0 N/mm ²

Tensile Bending Strength

After 1day	2.0 N/mm ²
After 7days	4.0 N/mm ²
After 28days	6.0 N/mm ²
Freeze thaw and salt resistant	Yes
Suitable for Underfloor Heating	Yes

COVERAGE ESTIMATES

Pack size	Coverage
Approximately 1.4kg R - 17F powder/m ² /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.

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



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