

R 61F

Rapid Drying And Hardening Internal Repair Mortar

Pack Size 11Kgs



TDS Technical Data Sheet

Features

Receives finishes after 1.5 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, slump-free mortar for internal repairs. The mixed mortar sets after 12 minutes and can be trafficked after 1.5 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. Surface Preparation \

Substrate Preparation

R-61F can be applied to dry or moist screeds, provided 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.

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 as follows:

• 11kg R-61F powder to 2.7-3 liters of water (approximately 3 parts 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, extended at lower temperatures 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 (0-5mm grading) or up to an equal volume of 3mm single-sized aggregate/chippings. For localized thicknesses exceeding 20mm, e.g., filling deep holes and cracks, incorporate up to an equal volume of 10mm single-sized coarse aggregate into 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 troweling 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, stair tread, etc., can be leveled, if necessary, with a CLI sub-floor compound.

Smoothing and Resurfacing:

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±1°C. Actual performance values obtained on-site may vary from those quoted.

Physical Properties

Bulk density of powder:	approx. 1.4 kg/liter
• Weight of fresh mortar:	approx. 1.9 kg/liter
Initial set (Vicat) DIN 1164:	approx. 15 minutes
Final set (Vicat) DIN 1164:	approx. 60 minutes

Compressive Strength

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

Flexural Strength

After 1 day:	3.5N/mm ²
• After 7 days:	4.5 N/mm ²
• After 28 days	7N/mm²

Coverage Estimates

Approximately 7m² @ 1mm thickness (7 liters of mortar)

Storage and Shelf Life

R-61F should be stored in cool, dry, shaded warehouses. It should not be stored in direct contact with the floor. When stored under the correct conditions, R-61F will have a shelf life of 9 months.

Pack Size

11Kg





Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.



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