Ultralit® GR-D70
Grouting & Repair

TECHNICAL DATA SHEET



Two-component polymer compound

PRODUCT DESCRIPTION

Ultralit GR-D70 Grouting & Repair is a low-viscosity, two-component polymer compound designed to fill open pores (pinholes), minor cracks and small surface defects in concrete floors before grinding and polishing. Its low viscosity helps it penetrate pores and small discontinuities in the substrate. The product is intended for repairing concrete surfaces indoors and outdoors. It can be used with the addition of dry quartz sand.

APPLICATIONS

- Slurry coating concrete surfaces and filling open pores before grinding and polishing.
- Repairing minor, non-moving cracks and small surface defects.
- Levelling local surface imperfections using a mixture with quartz sand.

BENEFITS

- Low viscosity helps the product penetrate the substrate.
- Working time allows the material to be spread manually across the surface.
- Can be mixed with quartz sand to suit the type of repair.
- Hard filler designed for subsequent floor processing.

PROPERTIES AND WORKING PARAMETERS

Parameter	Value
Colour	Sand-coloured; tinting with compatible pigments may be possible
Shore D hardness	70 ± 5
Component ratio A : B	1 : 1; whether by weight or volume must be confirmed
Working time after mixing	10-15 minutes
Gel time	10-20 minutes
Application temperature	+4°C to +35°C
Light foot traffic	after approximately 3-4 hours
Hard layer achieved; trolley traffic	after approximately 6-8 hours

The reference temperature for the stated times has not been specified. Curing takes longer at low temperatures. Readiness for grinding and loading must be checked on a test area; a hard surface does not mean full cure.

SUBSTRATE PREPARATION

The substrate must be clean, dry and sound. Remove dust, loose concrete and contaminants that may impair adhesion. If necessary, prepare the surface by grinding or abrasive blasting, then vacuum thoroughly. Before starting work, carry out an adhesion and finishing trial on a representative area of the floor.

MIXING

Before measuring out the components, stir the contents of each container separately. Measure components A and B at a 1:1 ratio by volume. Combine and mix thoroughly until homogeneous, carefully scraping the sides and bottom of the mixing container.

Dry quartz sand may be added to the mixed A+B components at a 1:1 or 1:2 ratio by volume (A+B mixture:sand). Recommended particle size: 0.3-1.7 mm. Select the particle size according to the width and depth of the defects being repaired. For very fine pores, confirm the suitability of the selected aggregate by carrying out an application trial.

A small amount of dry, fine concrete dust may be added to the quartz sand. A compatible pigment may be added during mixing to colour the entire mixture.

Prepare only as much material as can be applied within the available working time. Do not increase the batch size without first confirming the permissible quantity of mixed material and the application conditions.

APPLICATION

Spread the mixture over the prepared concrete using a trowel or squeegee, working it thoroughly into pores, minor cracks and defects. Remove excess material from the surface. Level local repairs made with a sand-filled mixture using a trowel. Do not apply after gelation has started. Once cured, check the adhesion and hardness of the filler. Begin grinding only after a trial area confirms that the material can be processed correctly and does not pull out of the pores. Readiness for grinding must be confirmed for the actual temperature and repair thickness.

LIMITATIONS

Do not use as a flexible expansion-joint sealant or on cracks subject to movement. Do not use on non-porous substrates unless adhesion has been confirmed. For outdoor applications, suitability for the actual exposure conditions must be confirmed. Resistance to specific chemicals requires separate confirmation.

COVERAGE AND PACKAGING

Consumption depends on substrate porosity and condition, defect dimensions, aggregate quantity and application technique. Determine consumption on a test area. Packaging sizes and the permitted layer thickness must be confirmed.

STORAGE AND SAFETY

Store in tightly closed original containers in accordance with the current Safety Data Sheets for components A and B. Confirm storage temperature and shelf life with the manufacturer. Read the Safety Data Sheets before use; ensure adequate ventilation and use the personal protective equipment specified in them. Handle residues and packaging in accordance with the Safety Data Sheets and local waste-management requirements.

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