



The Chemical Company

# UCRETE<sup>®</sup> FL

## Rapid Setting Polyurethane Concrete Underlayment Screed

### DESCRIPTION

**UCRETE FL** is a rapid setting polyurethane concrete underlayment screed that is suitable for use with all UCRETE industrial flooring systems.

**UCRETE FL** is a three part underlayment screed applied by trowel or screed bar at a thickness of 12 to 100 mm per layer. Each layer must be allowed to fully cure before further layers are applied and before final overcoating.

### FIELDS OF APPLICATION

**UCRETE FL** screed provides a fast and efficient means of repairing damaged floor slabs and also to create falls on a floor slab where insufficient time is available to use normal concrete or polymer floor screeds.

### FEATURES AND BENEFITS

- Expert installation by fully trained licensed applicators
- Suitable for application on to 7-day-old concrete and 3-day-old polymer screeds
- Allows application of suitable UCRETE flooring systems after approximately 16 hours.

### TYPICAL PERFORMANCE DATA

Density : 2.31 g/cm<sup>3</sup>

(Test data after 28 days curing @ 20°C)

Compressive Strength : 55 N/mm<sup>2</sup>

Tensile strength : 5.1 N/mm<sup>2</sup>

Flexural Strength : 11.6 N/mm<sup>2</sup>

Concrete adhesion : concrete fails

Dynamic elastic modulus : 28,000 N/mm<sup>2</sup>

### APPLICATION

#### Surface Preparation

All substrates shall be clean, structurally sound and free from foreign materials, contaminants, oily products and other debris. Substrates shall be 'visibly dry' with no standing water. The minimum tensile (pull-off) strength shall be 1.5N/mm<sup>2</sup>.

**UCRETE FL** may be applied to substrates of lower strength but the long-term performance of the floor may be affected.

Substrates will normally be concrete or polymer modified screeds. For other types of substrates, please consult BASF Construction Chemicals Representative.

### Mixing

Mix 1 can of Part 1 and 1 can of Part 2 with 2 bags of Part 3

### Placing

Spread the mixed mortar evenly over the substrate (with rake, trowel or screed bar) and close, using a steel trowel. Do not create a resin rich surface.

### CURING

At 15 to 20°C, cures before overcoating in 16 hours.

### CLEANING

Cleaning of plant and equipment should be undertaken well away from the application area. Xylene may be used to clean equipment, tools and spillages. In case of spillages, excess material must first be absorbed into sawdust or to the disposable absorbent medium. Use correct handling procedures with solvents and take care to avoid any accidental spillages or splashes onto the applied surfaces.

Part 2 containers may contain small amounts of unreacted MDI. Thereafter, they must be decontaminated with 5% solution of soda ash (sodium carbonate, or washing soda) prior to disposal as building waste.

### ESTIMATING DATA

Coverage is influenced by substrate roughness, porosity and temperature, but allowing for normal wastage factors will be approximately

**UCRETE FL** – 2.2 to 2.3 kg/m<sup>2</sup>/mm thickness

### PACKAGING

**UCRETE FL**, is supplied in units for immediate use, consisting of:

**UCRETE FL** Part 1: 2.83 kg

**UCRETE FL** Part 2: 2.86 kg

**UCRETE FL** Part 3: 21.9 kg x 2

### SHELF LIFE

**UCRETE FL** can be kept for 12 months from date of manufacture, in original unopened packaging, if stored under cover and above ground level at temperatures 5 to 30°C.

The actual component temperature will have a strong effect on the workability of the mixed material and should therefore be well controlled on site. If the materials temperature is below 12°C, the mixed material will show

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reduced flow and leveling properties, making the application more difficult. It is therefore advised to keep the product temperatures at approximately 15 to 20°C.

## PRECAUTIONS

Material Safety Data (MSDS) for each component of **UCRETE FL** are available. Gloves and eye protection shall be worn during mixing and application.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

1-1-1-0607

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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