



The Chemical Company

PRIMER LC

Heavy duty polyurethane scratch coat primer for UCRETE® Industrial Flooring

Description of Product

PRIMER LC is a solvent-free, three-part scratch coat primer based on heavy duty polyurethane technology. Part 1 is a low viscosity white liquid. Part 2 is a low viscosity brown liquid. Part 3 is a white powder.

Fields of Application

PRIMER LC is applied to prepared concrete substrates prior to coating with UCRETE® industrial flooring. It seals and smooths the prepared concrete, thus preventing displaced air from the concrete causing defects in the surface of the floor. It is the primer of choice for use with UCRETE MF and UCRETE MFAS floors.

Features and Benefits

- | Environmentally friendly
 - no volatile solvents
 - non-tainting
- | Safe
 - flash point above 220°C
 - non-flammable
 - no special requirements for transport or storage
- | Easy application by trowel

Application Procedure

Substrate quality

Substrates will normally be concrete or polymer modified screeds. Other substrates may be suitable; consult your specialist applicator or local BASF Construction Chemicals sales office.

All substrates must be clean and free from dust and loose particles. Concrete and other cementitious substrates must be visibly dry and have a minimum tensile (pull-off) strength of 1.5 N/mm². PRIMER LC may be applied to substrates of lower strength but the long-term performance of the floor may be affected. All traces of contaminants, such as oils, fats, greases, paint residues, chemicals, algae and laitance, should be removed.

Preparation of Substrate

As with all surface coatings, proper surface preparation is vital to ensure the successful application and performance of PRIMER LC.

The preferred method of preparation is vacuum shot-blasting. Other methods, such as air impact hammer (scabber) – provided that the substrate is not damaged, concrete surface planer, grit blasting, wire-brush scarifier, surface grinder, drum sander and flame spaller, can be satisfactory. Chemical methods, such as acid etching, should not be used.

Mixing

Pour the contents of the Part 1 can and the Part 2 can into a 25 litre mixing pail and mix using a slow speed drill and spiral mixing head.

Add the Part 3 bag and continue mixing for a further mix for a further 3 – 4 minutes

The working life is approximately 10 minutes. Multiple units may be mixed but do not mix more material than can be applied in 10 minutes.

Application

Do not apply to visibly damp substrates. Do not apply when atmospheric condensation is occurring or likely to occur before full cure is obtained, i.e. when the substrate temperature is within 3°C of the dew-point.

Pour the mixed material onto the floor and apply by steel trowel taking care to completely seal the floor. Apply the material around the edges of areas and fill anchor grooves.

Note

If mixed material is left in the mixing container for more than 10 minutes it will react strongly giving off considerable heat. This should be avoided but if it does occur the container should be placed outside until reaction is complete.

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Coverage

Coverage is influenced by substrate roughness, porosity and temperature. The following can be used as a guide.

Coverage	kg/m ²	m ² /unit
	2 – 4	5 - 10

Curing

PRIMER LC should be allowed to cure for a minimum of 8 hours and a maximum of 48 hours before applying UCRETE industrial flooring.

If holes are evident in the scratchcoat primer, indicating that air from the substrate has risen through the primer. Remedial action should be taken or air will continue to rise through the body coat layer leading to surface imperfections.

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 the case of spillages, excess material must first be absorbed onto sawdust or other disposable absorbent medium. Use correct handling procedures with solvents and take care to avoid any accidental spillage or splashes onto coated surfaces.

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

Packaging

PRIMER LC is supplied as three factory-batched components.

Storage

All parts of PRIMER LC should be stored under cover and free of the ground. Protect from all sources of moisture. Storage conditions should be dry, above 5°C and below 30°C

Watchpoints

Appropriate health and safety advice can be found in the Material Safety Data Sheets.

Users are advised to wear gloves and eye protection when mixing and applying PRIMER LC.

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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