



The Chemical Company

UCRETE MT

4 – 6 mm Heavy Duty Polyurethane Floor Finish

Description of Product

UCRETE MT provides a lightly textured protective floor finish suitable for applications in wet and dry process environments. It is dense and impervious providing the ideal floor finish for applications in the food and beverage, pharmaceutical and chemical industries and wherever a robust long lived floor is required.

UCRETE Industrial Flooring has been widely used throughout industry for more than 30 years, many of the older floors are still in service. A detailed project reference list is available upon request.

Performance data

Temperature Resistance

The UCRETE MT resins do not start to soften until temperatures above 130°C are exceeded.

4 mm UCRETE MT floors are fully serviceable to 60°C

Non Tainting

UCRETE MT is solvent free and non tainting as tested by the Campden & Choreywood Food Research Association

Chemical Resistance

UCRETE MT offers exceptional resistance to a wide range of chemical aggressors. For example MT is resistant to the following commonly encountered chemicals.

Acetic acid, 50%: As spirit vinegar widely used in the food industry, indicative of resistance to vinegar, sauces, etc.

Concentrated Lactic Acid @ 60°C: Indicative of resistance to milk and dairy products.

Oleic Acid, 100% @ 60°C: Representative of the organic acids formed by oxidation of vegetable and animal fats widely encountered in the food industry.

Concentrated Citric Acid: As found in citrus fruits and representative of the wider range of fruit acids which can rapidly degrade other resin floors.

Methanol, 100%: Representative of alcohols and the wider range of solvents used in the pharmaceutical industry.

UCRETE MT is also resistant to a wide range of mineral oils, salts and inorganic acids.

Extensive chemical resistance tables are available in the separate data sheet 'A guide to the chemical resistance of UCRETE Flooring'.

Note: some staining or discolouration may occur with some chemicals depending upon the nature of the spillage and the standards of house keeping employed.

Impact Resistance

With high mechanical strengths and a low elastic modulus, UCRETE MT is very resilient and able to withstand severe impact loads. While no material is indestructible and surface chipping may occur, brittle modes of failure resulting in cracking and disbondment are unknown with UCRETE floors

UCRETE MT

Slip Resistance

UCRETE MT conforms to the HSE Guidance Sheet 156 and Food Sheet No.22, issued by the Health and Safety Executive, on slip resistance.

UCRETE MT continues to meet the requirements of 'Food Sheet No. 22' even after years of hard and steel wheeled traffic.

The UCRETE MT surface profiles have coefficient of friction as determined to EN 13038 Part 4 using the 4S rubber on the wet floor as follows:

UCRETE MT 40 - 45

Optimum slip resistance can only be maintained with regular cleaning.

Cleaning

Regular cleaning and maintenance will enhance the life and appearance of any floor. UCRETE MT is readily cleaned with industry standard cleaning chemicals and equipment. Please consult your local cleaning chemical or equipment supplier.

Permeability

UCRETE MT exhibits zero absorption when tested to CP.BM2/67/2.

Substrate Moisture Tolerance

UCRETE Industrial Flooring is extremely tolerant to residual substrate moisture and can be installed directly onto 7 day old concrete, or onto old good quality concretes with high moisture contents without the use of special primers provided there is a functioning DPM within the structure.

This enables rapid construction programmes to be maintained and facilitates refurbishment work in wet process areas.

Epoxy surface DPMs should not be used as they soften under high temperature conditions and will lead to floor failure.

Colours

UCRETE MT is available in 4 standard colours:

Red, Yellow, Green, Orange, Grey & Cream

The UCRETE resin systems have been formulated to provide the very highest chemical and heat resistance. As a direct result some yellowing of the installed floor will occur in areas of direct UV exposure. This is most apparent in lighter colours.

Technical Data/Typical Properties

Samples cured for 28 days at 20°C

Density (BS 6319:Part 5)	2000 kg/m ³
Compressive strength (BS 6319:Part 2)	50 MPa
Tensile strength (ISO R527)	6 MPa
Flexural strength (ISO 178)	14 MPa
Adhesive strength to concrete (BS6319:Part 4),	concrete failure
Fire Testing:	
EN13501: Part 1	B _{FL} - S1
Surface spread of flame (BS 476:Part 7)	Class 2

Specification

The floor finish shall be UCRETE MT from BASF Construction Chemicals, of 19 Broad Ground Road, Redditch, B98 8YPB installed at 4 -6 mm* in accordance with the manufacturers' instructions.

*A 4 mm UCRETE MT floor is fully resistant to liquid spillage and discharge up to 60°C.

UCRETE MT

*A 6 mm UCRETE MT floor is fully resistant to liquid spillage and discharge up to 70°C and can be lightly steam cleaned.

Substrate Quality

Concrete substrates should be visibly dry and have a minimum tensile strength of 1.5 MPa.

Refer to the guide 'The Design & Preparation of Substrates for UCRETE Industrial Flooring'

Coverage

4 mm: 8kg/m²

6 mm: 12g/m²

Curing

Normally UCRETE MT floors can be put into service within 24 hours even at 8°C.

Storage

In covered warehouse conditions, above 5°C and below 30°C, and out of direct sunlight. Materials must be raised off the floor and kept dry. Parts 1 & 2 must be protected from frost.


Disposal

Part 2 containers should be decontaminated with 5% sodium carbonate (washing soda) solution after use and disposed of as building waste in accordance with local regulations.

Warnings and precautions

In its cured state UCRETE MT is physiologically non-hazardous.

Operatives should consult the CoSHH risk assessment and their work instructions.

	
BASF Construction Chemicals (UK) Ltd 19 Broad Ground Road Lakeside, Redditch Great Britain B98 8YP	
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EN13813 SR-B>2,0-AR0,5-IR>4	
Synthetic resin screed material	
Reaction to fire:	NPD
Release of corrosive substances:	NPD
Water permeability:	NPD
Mechanical resistance:	NPD
Wear resistance:	AR0,5
Bond strength:	B>2,0
Impact resistance:	IR>4
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD
Electrical resistance:	NPD

UCRETE MT

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

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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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* Properties listed are based on laboratory controlled tests.

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