

# UCRETE<sup>®</sup> MF AS

Anti static, medium duty polyurethane concrete flooring system

## DESCRIPTION

**UCRETE MF AS** is a single layer, seamless, solvent-free, polyurethane flooring system with a smooth matt surface finish. It has high impact resistance and withstands a wide spectrum of chemicals and abrasive wear.

**UCRETE MF AS** meets the antistatic flooring specifications DIN 51953, BS 2050 (explosive handling areas) and obtain ESD approval according to IEC 61340.

## RECOMMENDED FOR

**UCRETE MF AS** is recommended for conditions requiring the maximum chemical resistance and where thermal situations arise, from cool rooms to warm environments.

Specific application include:

- electronics and component assembly
- clean rooms
- pharmaceutical production
- explosive and ammunition storage & handling
- textile and fibre production
- chemical plants

## FEATURES AND BENEFITS

"**HACCP Accredited** Ucrete products have been accredited for use in facilities covered by HACCP accreditation."

*Ucrete MF AS has approval for use as flooring for HACCP accredited facilities.*



- **Expert Application-** Installed only by trained and approved specialist contractors.
- **Fast application/rapid access-** Can be applied to 6-day-old concrete/2 day old polymer screed. Short curing time and 8 hour access to foot traffic; 20 hours for vehicles.
- **Hygienic/safe-** Slip resistant; non-tainting; non-dusting; monolithic (minimum joints); easy to maintain; microbiologically inert.
- **Durable / long life-** Wide chemical resistance; wear and impact resistant; resists temperature from -20°C to 60°C at 6 mm thickness; 5 years of international use.
- **Prepacked-** Preweighed/ prepacked for immediate use; batch-to-batch colour matched for consistency.

## PERFORMANCE DATA

(Test data 28 days @ 20°C) Density (BS6319:Part 5)	: 1,970 kg/m <sup>3</sup>
Compressive Strength (BS6319:Part 2)	: 55N/mm <sup>2</sup>
Tensile Strength (ISO R527)	: 9N/mm <sup>2</sup>

Flexural Strength (ISO 178)	: 21 N/mm <sup>2</sup>
Dynamic E-Modulus (ASTM C597-83)	: 14000N/mm <sup>2</sup>
Concrete Adhesion (BS6319: Part 4)	: concrete fails
Coeff. Thermal Expansion (ASTM C531:Part 4.05) °C-1	: 3.6x10 <sup>-5</sup> °C <sup>-1</sup>
Thermal Conductivity (BS8740)	: 0.9W/m°C
Taber abrasion resistance (ASTM D4060)	
H22 wheels	: 1410mg
CS17 wheels	: 120mg
Water absorption(CP:BM 2/67/2)	: 0 ml
Surface Spread of Flame (BS476:Part 7)	: Class 2
Sensory evaluation (C & CFRA method TES-S-002)	: No taint
Resistance to earth	
DIN 51953	: < 10 <sup>6</sup> ohm
EN1081	: < 10 <sup>6</sup> ohm
VOC content: g/L 10 (HK prod code P10-05)	

## PROPERTIES

Colours : Yellow  
: Orange  
: Red  
: Green  
: Grey

Thickness: 4 mm (minimum) to 6 mm

Service temperatures

at 6 mm : 80°C maximum & -20°C

at 4 mm : 60°C maximum & -10°C

## APPLICATION

### Surface Preparation

Concrete shall be clean, structurally sound and free from foreign materials, contaminants, oily products and other debris. Concrete surfaces shall be 'visibly dry' with no standing water. The minimum tensile (pull-of) strength shall be 1.5N/mm<sup>2</sup> and concrete shall have cured for at least 5 days. Concrete substrates shall incorporate a continuous water proofing membrane.

Concrete design shall allow provisions for movement joints, as required. In addition, provision shall be made for induced joints to allow shrinkage of the concrete to occur along defined planes.

All laitance shall be removed. All imperfections such as holes and cracks shall be repaired and levelled with the mean level of the surface. For repairing surface unevenness, EMACO concrete repair system shall be used.

The whole surface shall be enclosed and impact shot blasted, surface planed, ground or high-pressure water



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jetted. All high spots shall be removed. Surfaces shall be rendered 'visibly dry' by heat or mechanical means. Remove all loose material and dust by vacuum or mechanical means.

## Priming

UCRETE MF AS shall be applied to cured scratch coat of UCRETE MF AS of 1mm nominal thickness.

## Placing

UCRETE MF AS shall be mixed and applied only by specialist flooring contractors who have been trained in the correct application procedures.

## ESTIMATING DATA

3mm : 8 to 10kg/m<sup>2</sup>  
6mm : 12 to 14kg/m<sup>2</sup>

## CURING

At 30°C, foot traffic access in 8 hours, vehicular traffic in 16 hours. At 20°C, foot traffic access in 12 hours, vehicular traffic in 24 hours. Full cure at 28 days.

## CLEANING

Regular cleaning, dry or wet mechanical scrubbing or hot, flushing with detergents or detergent/sterilant products will enhance the floor's appearance and reduce soiling tendencies.

## COLOUR

Ucrete floor 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.

## PACKAGING

UCRETE MF AS is supplied as a unit for immediate use, consisting of:

UCRETE MF AS Part 1 : 2.52kg  
UCRETE MF AS Part 2 : 2.86kg  
UCRETE MF AS Part 3 : 11.00kg  
UCRETE Liquid Polykit Pigment : 0.50kg

## SHELF LIFE

UCRETE MF AS can be kept for 9 months from date of manufacture when stored at 30°C or less above ground level and under cover in original unopened packaging, away from exposure to direct sunshine.

## PRECAUTIONS

Material Safety Data Sheets (MSDS) for each component of UCRETE MF AS 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 Sheets.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** 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** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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