

UCRETE[®] 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 and BS 2050 (explosive handling areas).

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 applications include:

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

FEATURES AND BENEFITS

Expert application	Installed only by trained and approved specialist contractors.
Fast application/rapid access	Can be applied to 6 days old concrete/2 days old polymer screed. Short curing time and 8 hour access to foot traffic; 24 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 temperatures from -15°C to 60°C at 6 mm thickness; many years of international use.
Prepacked	Preweighed/prepacked for immediate use; batch-to-batch colour matched for consistency.

TYPICAL PERFORMANCE DATA

(Test data 28 days @ 20°C)

Compressive Strength (BS6319:Part 2)	: 51 MPa
Flexural Strength (ISO178)	: 20 MPa ²
Dynamic E-Modulus (ASTM C597-83)	: 14 GPa
Tensile Strength (ISO R527)	: 7.5MPa
Concrete Adhesion (BS6319:Part 4)	: concrete fails
Coeff. Thermal Expansion (ASTM C531)	: $5.8 \times 10^{-5} \text{ } ^\circ\text{C}^{-1}$
Thermal Conductivity (BS874)	: 1.1W/m°C
Surface Resistivity (BS2050) (DIN 51953 -- 1m)	: 30 - 50 x 10 ⁹ ohms 40 - 80 x 10 ⁹ ohms
Density (BS6319:Part 5)	: 1880 kg/m ³

PROPERTIES

Colours	: Yellow ~ Orange ~ Red ~ Green ~ Grey ~
Thickness	: 4 mm (minimum) to 6 mm
Service temperatures	: at 6 mm : 60°C maximum & -15°C at 4 mm : 60°C maximum & -15°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-off) strength shall be 1.5N/mm² and concrete shall have cured for at least 5 days. Concrete substrates shall incorporate a continuous waterproofing membrane.

Concrete design shall allow provisions for movement joints, as required. In addition, provision shall be made for induced joints to allow any 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 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 a 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.

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.

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.



The Chemical Company

UCRETE[®] MF-AS

ESTIMATING DATA

2.30 to 2.50 kg/m²/mm thickness

PACKAGING

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

Ucrete MF-AS Part 1	:	2.56 kg
Ucrete MF-AS Part 2	:	2.73 kg
Ucrete MF-AS Part 3	:	12.1 kg

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 sunlight.

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 Sheet.

All BASF Construction Chemicals Australia & New Zealand data sheets are updated on a regular basis, it is the user's responsibility to obtain the most recent issue
AUcMFAS/5/0107

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.

BASF Construction Chemicals Australia Pty Ltd Incorporated in NSW A.B.N. 46 000 450 288 Head Office: 11 Stanton Road Seven Hills, NSW 2147 Ph. (02) 8811 4200	Newcastle (02) 4961 3819 Canberra (02) 6280 6010 Brisbane (07) 3633 9900 Townsville (07) 4774 7344 Melbourne (03) 9549 0300	Adelaide (08) 8139 7500 Perth (08) 9366 2600 Darwin (08) 8984 3269 Kalgoorlie 0417 772 355
---	---	---

BASF Construction Chemicals New Zealand Ltd Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233
BASF WEB SITES www.basf-cc.com.au www.basf-cc.co.nz www.basf-ugc.com