

# Ucrete MF40AS-C

## Static Conductive heavy duty polyurethane floor finish

### DESCRIPTION

Ucrete MF40AS-C is a unique HD Polyurethane resin floor which provides a smooth protective static conductive floor finish suitable for applications in predominantly dry environments.

Ucrete MF40AS-C is used where there is a very high risk of explosion due to electrostatic discharge including where explosives, gases or solvents are handled.

Ucrete Industrial Flooring has been widely used throughout industry for more than 50 years; many of the older floors are still in service. A detailed project reference list is available upon request

### PERFORMANCE DATA

#### ANTISTATIC PROPERTIES

Ucrete MF40AS-C meets the requirements of BS5958, EN1081, DIN51953, EN61340 and BS2050.

For more detailed information on earthing anti-static floors refer to the separate datasheet 'Guidelines to Earthing of Ucrete antistatic floors'.

Ucrete MF40AS-C is ideally suited for defence estates and very highly explosive product facilities. It does not contain any amines and is non-sparking according to UFGS-09 97 23 (April 2006).

#### AIR QUALITY

Ucrete has been awarded the Indoor Air Comfort Gold Label following extensive VOC emission chamber testing and auditing of quality management and production control procedures.

This demonstrates that Ucrete is an extremely clean product without any volatile compounds that might taint foodstuff or affect the well-being of personnel.

All Ucrete grades give very low emissions and conform to all the emissions requirements for indoor flooring systems in Europe including AgBB in Germany, Afsset in France, where they are rated A+ for VOC emissions (the cleanest rating), and M1 in Finland.

For further information please contact your local Master Builders Solutions representative.

### TEMPERATURE RESISTANCE

A Ucrete MF40AS-C floor is fully resistant to liquid spillage and discharge up to 70°C. Suitable for freezer temperatures down to -15°C.

### CHEMICAL RESISTANCE

Ucrete MF40AS-C offers exceptional resistance to a wide range of chemical aggressors. For example Ucrete is resistant to spillages of the following commonly encountered classes of chemicals:

Most dilute and concentrated organic acids such as, Acetic Acid, Lactic Acid, Oleic Acid and Citric Acid as commonly found in the food industry,

Dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric.

Dilute and concentrated alkalis, including sodium hydroxide to 50% concentration

Animal fats and vegetable oils, sugars, flavourings and essences.

Mineral oils, kerosene, gasoline and brake fluids

A wide range of organic solvents including Methanol, Xylene Ethers and Chlorinated solvents

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

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

For detailed information, please contact your local Master Builders Solutions UK Ltd office for guidance.

### IMPACT RESISTANCE

With high mechanical strengths and a low elastic modulus, Ucrete MF40AS-C 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.



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### UCRETE LICENSED APPLICATORS

To achieve the best floor possible with a professional installation, you must use one of our fully trained Ucrete Licensed Applicators.

To view our most up to date Licenced Applicators please click here: <https://www.master-builders-solutions.com/en-gb/about-us/news/ucrete-licensed-applicators>

### BIM OBJECTS

All Ucrete products have a dedicated BIM object available to download from the NBS National BIM Library, the industry source for generic and proprietary BIM content.

To view our most up to date Ucrete BIM Objects please click here: <https://www.nationalbimlibrary.com/en/basfplc-construction-chemicals/>

### 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 is physiologically non-hazardous.

For normal flooring applications Ucrete does not require the use of respiratory protective equipment during installation.

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

### HANDLING AND TRANSPORT

Usual preventive measures for the handling of chemical products should be observed when using this product, for example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed.

Specific safety information referring the handling and transport of this product can be found in the Material Safety Data Sheet. For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Disposal of product and its container should be carried out according to the local legislation in force. Responsibility for this lies with the final owner of the product.

### CONTACT DETAILS

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Product Data	
Density	1970 kg/m <sup>3</sup>
Compressive strength (EN13892-2)	48 - 53 MPa
Tensile strength (BS6319 Part 7)	9 MPa
Flexural strength (EN13892-2)	18 - 21 MPa
Compressive modulus (BS 6319:Part 6)	3250 - 4000 MPa
Adhesive strength to concrete (EN13892-8)	concrete failure
Coefficient of thermal expansion (ASTM C531:Part 4.05)	$3.6 \times 10^{-5} \text{ }^{\circ}\text{C}^{-1}$
Fire Testing (EN13501: Part 1)	B <sub>FL</sub> – S <sub>1</sub>
Resistance to earth (EN1081)	< 1 MΩ

**Note:-** Samples cured for 28 days at 20 °C

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01130075	
EN 13813:2002	
Synthetic resin screed material	
Reaction to fire:	B <sub>FL</sub> – S <sub>1</sub>
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:	ER <sup>2</sup> <5x10 <sup>4</sup> - ER <sup>3</sup> <5x10 <sup>4</sup>

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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.

### 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

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.