

# Ucrete HPQ

## Heavy duty flow applied coloured quartz screed

### DESCRIPTION

Ucrete HPQ is unique heavy duty resin floor with an attractive coloured quartz screed finish.

Ucrete HPQ provides a robust 4-6mm thick coloured quartz floor finish suitable for applications in wet and dry process environments.

It is dense and impervious, providing the ideal floor finish for applications in pharmaceutical production facilities, clean room areas, amenity rooms, retail, commercial and industry environments and wherever an attractive floor is required.

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.

An antistatic version is available, Ucrete HPQAS, see separate data sheet.

### FEATURES AND BENEFITS

- Expert installation by fully trained licensed applicators
- Attractive coloured quartz finish
- Application onto 7 day old concrete and 3 day old polymer screed
- Rapid installation

### PERFORMANCE DATA

#### 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.

#### NON TAINTING

The Ucrete HPQ systems are non-solvented and non-tainting.

### SLIP RESISTANCE

The Ucrete HPQ surface profiles have coefficients of friction as determined to EN13038 Part 4 using the 4S rubber on the wet floor as follows:

Ucrete HPQ	36 - 45
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The Ucrete HPQ surface profiles conform to DIN51130 as follows:

Ucrete HPQ	R11 -
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Heavy hard wheeled traffic will reduce the slip resistance of Ucrete HPQ floors.

Optimum slip resistance can only be maintained with regular cleaning.

### TEMPERATURE RESISTANCE

A Ucrete HPQ floor with Ucrete TCPU CLEAR will withstand liquid spillages and discharge up to 70°C.

### CHEMICAL RESISTANCE

Ucrete HPQ will resist spillages of:

- dilute mineral and organic acids
- salts and salt solutions
- dilute alkalis
- fats, oils and sugars
- mineral oils

For maximum chemical and solvent resistance use Ucrete TCPU. The separate data sheet 'A guide to the chemical resistance of Ucrete Flooring' refers.

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

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

### IMPACT RESISTANCE

With high mechanical strengths and a low elastic modulus, Ucrete HPQ 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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### 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.

### PERMEABILITY

Ucrete HPQ exhibits zero absorption when tested to CP.BM2/67/2.

### COLOURS

Ucrete HPQ is available in ten attractive quartz blends.

### CLEANING & HYGIENE

Regular cleaning and maintenance will enhance the life and appearance of any floor.

Ucrete HPQ is cleaned using industry standard cleaning chemicals and equipment. The use of a food industry standard scrubber drier machine is recommended.

Detailed cleaning guidelines are available from your local Master Builders Solutions office.

### SPECIFICATION

The floor finish shall be Ucrete HPQ/HPQAS\*, from Master Builders Solutions UK Ltd of 19 Broad Ground Road, Redditch, Worcestershire, B98 8YP, installed at 4/6\*mm in accordance with the manufacturer's instructions and finished with 1/2\* coats Ucrete TCPU CLEAR /a clear epoxy encapsulation resin\*

\*(select as required)

### 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'

All joints in the substrate concrete subject to movement should be reflected through the Ucrete floor and sealed with a suitable sealant.

### APPLICATION CONDITIONS

For best results materials, substrate and air temperature should be in the range 15–25°C. Whilst Ucrete HPQ will cure out effectively over a wide range of temperatures the optimum appearance and profiles are most readily achieved under good site conditions

Low temperatures will retard the setting and can impair the visual appearance of the floor.

High temperatures will shorten the open time and can impair the appearance of the floor.

Condensation and low temperatures can cause a white bloom on the surface.

### CURING

Normally Ucrete HPQ floors with Ucrete TCPU can be put into service within 24 hours even at 8°C. Floors with an epoxy encapsulation resin may require longer, especially at lower temperatures.

### UCRETE LICENSED APPLICATORS

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

### BIM OBJECTS

All Ucrete products have a dedicated BIM object available to download from the [NBS National BIM Library](#) or [Bimobject](#).

### 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. Liquid components must be protected from frost.

### 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.

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### 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	2000 - 2090 kg/m <sup>3</sup>
Compressive strength (EN13892-2)	48 - 54 MPa
Tensile strength (BS6319 Part 7)	5 - 7 MPa
Flexural strength (EN13892-2)	12 - 14 MPa
Compressive modulus (BS 6319:Part 6)	3250 - 5000 MPa
Adhesive strength to concrete (EN13892-8)	concrete failure
Coefficient of thermal expansion (ASTM C531:Part 4.05)	2 - 6 x 10 <sup>-5</sup> °C <sup>-1</sup>
Fire Testing (EN13501: Part 1)	B <sub>FL</sub> – S <sub>1</sub>

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

	
Master Builders Solutions UK Ltd 19 Broad Ground Road Lakeside, Redditch Great Britain B98 8YP	
04	
1040360	
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:	NPD



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Ucrete HPQ - Master Builders Solutions UK Ltd, Version 2

### 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.