

Ucrete® HPQ

Heavy Duty Polyurethane Coloured Quartz Screed

DESCRIPTION OF PRODUCT

Ucrete® HPQ is unique HD polyurethane resin technology 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.

The high quality epoxy encapsulation resin finish provides for the highest aesthetic standards and ease of cleaning. For areas where higher chemical and temperature resistance is required, the light stable high performance TOPCOAT PU CLEAR is available.

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 food-stuff 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.

The epoxy encapsulation resin is not covered by this certification. For further information please contact your local **Master Builders Solutions** representative.

COLOURS

Ucrete® HPQ is available in ten attractive colour quartz blends.

PERFORMANCE DATA TEMPERATURE RESISTANCE

A **Ucrete® HPQ** floor with TOPCOAT PU CLEAR will withstand liquid spillages and discharge up to 70°C.

Ucrete® HPQ floors with the epoxy encapsulation resin is fully resistant to liquid spillage and discharge up to 60°C.

NON TAINING

The **Ucrete® HPQ** systems do not contain solvent and are 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® HPQpu 36 - 45

Ucrete® HPQep 36 - 40

The **Ucrete® HPQ** surface profiles conform to DIN51130 as follows:

Ucrete® HPQpu R11 -

Heavy hard wheeled traffic will reduce the slip resistance of **Ucrete® HPQ** floors.

Optimum slip resistance can only be maintained with regular cleaning.

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** Construction Chemicals office.

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® TOPCOAT PU CLEAR**. The separate data sheet 'A guide to the chemical resistance of **Ucrete®** Flooring' refers.

For detailed information, please contact your local BASF Construction Chemicals 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.

PERMEABILITY

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

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Typical Properties	
Density	2000 – 2090 kg/m ³
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 ⁻⁵ °C ⁻¹
Fire Testing (EN13501: Part 1)	BFL – S1

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

SPECIFICATION

The floor finish shall be **Ucrete[®] HPQ/HPQAS***, from BASF plc, Construction Chemicals 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 TOPCOAT PU 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[®] TOCOAT PU CLEAR** 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.

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.

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.

CONTACT INFORMATION

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