



The Chemical Company

UCRETE HPO & HPOAS

Heavy Duty Polyurethane Coloured Quartz Screed

Unique HD Polyurethane resin technology with an attractive coloured quartz screed finish

Description of Product

UCRETE HPO 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 Lockcoat EP finish provides for the highest aesthetic standards and ease of cleaning.

For areas where high chemical resistance is required a high performance polyurethane LOCKCOAT PU is available.

UCRETE Industrial Flooring has been widely used throughout industry for more than 30 years, many of the older floors are still in service. A detailed project reference list is available upon request.

Colours

UCRETE HPO is available in ten attractive colour quartz blends.

Performance Data

Antistatic Properties

The antistatic version, UCRETE HPOAS, complies with the requirements of BS5958, EN1081 and DIN51953.

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

Impact Resistance

With high mechanical strengths and a low elastic modulus, UCRETE HPO 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 cracking and disbondment are unknown with UCRETE floors.

Permeability

UCRETE HPO exhibits zero absorption when tested to CP.BM2/67/2.

UCRETE HPQ & HPOQAS

Technical Data

| | |
|--|--|
| Density (BS 6319:Part 5), Kg/m ³ | 2000 - 2090 |
| Compressive strength (BS 6319:Part 2), MPa | 48 - 54 |
| Tensile strength (ISO R527), Mpa | 5-7 |
| Flexural strength (ISO 178), Mpa | 12 - 14 |
| Compressive modulus (BS 6319:Part 6), Mpa | 3250 - 5000 |
| Adhesive strength (BS6319:Part 4) | concrete failure |
| Thermal expansion (ASTM C531:Part 4.05), °C ⁻¹ | 2 - 6 x 10 ⁻⁵ |
| Thermal conductivity (BS 874), W/m. °C | 1.1 |
| Fire Testing: EN13501: Part 1 Surface spread of flame (BS 476:Part 7) | B _{FL} - S1 Class 2 |
| Resistance to earth, DIN51953 EN1081 | < 10 ⁶ ohm < 10 ⁶ ohm |

Slip Resistance

Typical values for the coefficient of friction as determined using the TRRL slip resistance tester with 4S rubber on the wet floor as follows:

With EP Lockcoat 36 – 40

With LOCKCOAT PU 36 – 45

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

Optimum slip resistance can only be maintained with regular cleaning.

Cleaning

Regular cleaning and maintenance will enhance the life and appearance of any floor. UCRETE HPQ is readily cleaned with industry standard cleaning chemicals and equipment. Please consult your local cleaning chemical or equipment supplier.

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 concrete 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.

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 LOCKCOAT PU. 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.

Non Tainting

The UCRETE® HPQ systems are solvent free and non-tainting.



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Temperature Resistance

UCRETE HPQ floor is fully resistant to liquid spillage and discharge up to 60°C.

A 6mm UCRETE HPQ and HPQAS floor with LOCKCOAT PU will withstand liquid spillages and discharge up to 70°C.

Specification

The floor finish shall be UCRETE HPQ/HPQAS*, from BASF Construction Chemicals of 19 Broad Ground Road, Redditch, Worcestershire, B98 8YP, installed at 4/6*mm in accordance with the manufacturers' instructions and finished with UCRETE® Lockcoat EP/PU*

*(select as required)

Substrate Quality

Concrete substrates should be visibly dry and have a minimum tensile strength of 1.5Mpa. Refer to the guide 'The Design and Preparation of Substrates for UCRETE® Industrial Flooring'

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

Application Conditions

For best results materials, substrate and air temperature should be in the range of 15-25°C. Whilst UCRETE® HPQ will cure out effectively over a wide range of temperatures the optimum appearance is 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 Lockcoat

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. Parts 1 & 2 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 HPQ is physiologically non-hazardous.

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


Warnings & precautions

In its cured state, UCRETE PRIMER RG is physiologically non-hazardous.


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

UCRETE HPOQ & HPOQAS

HPOQ

| | |
|---|-------|
|  | |
| BASF Construction Chemicals (UK) Ltd 19 Broad Ground Road Lakeside, Redditch Great Britain B98 8YP | |
| 04 | |
| EN 13813 SR-B>2,0-AR0,5-IR>4 | |
| Synthetic resin screed material | |
| Reaction to fire: | NPD |
| 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 |

HPOQAS

| | |
|---|--|
|  | |
| BASF Construction Chemicals (UK) Ltd 19 Broad Ground Road Lakeside, Redditch Great Britain B98 8YP | |
| 04 | |
| EN 13813 SR-B>2,0-AR0,5-IR>4- ER ² <10 ⁶ -ER ³ <10 ⁶ | |
| Synthetic resin screed material | |
| Reaction to fire: | NPD |
| 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 ² <10 ⁶ -ER ³ <10 ⁶ |

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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.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during 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

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The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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* Properties listed are based on laboratory controlled tests.

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