

UCRETE® IF

Iron Aggregate Heavy Duty Polyurethane Floor Finish

Unique HD Polyurethane Resin Technology with Exceptional Resistance to Impact and Abrasion

DESCRIPTION

Ucrete IF provides an extremely tough resurfacing for environments subject to extreme impact and abrasion.

It is dense and impervious iron armoured surface provides protection against severe abrasion making it the ideal floor finish for applications in the waste management, heavy engineering and manufacturing industries and wherever a robust long lived floor is required.

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.

RECOMMENDED FOR

UCRETE IF is used to protect horizontal surfaces including:

- Waste transfer station
- Transition strips
- Heavy engineering workshops
- Heavy process areas
- Under mixing heads
- Storage bunkers
- Loading docks
- Heavy equipment maintenance facilities

FEATURES AND BENEFITS

- Can be applied onto 7 day old concrete or 3 day old polymer screeds
- Fully serviceable within only 24 hours (subject to temperature)
- Solvent free and non-tainting
- Specially treated iron aggregates for maximum abrasion resistance
- Long lived and low maintenance
- Steam cleanable
- No primer required enabling rapid installation in a single application

PERFORMANCE DATA

Samples cured for 28 days at 20°C

Density (BS 6319:Part 5)	2800 kg/m ³
Compressive strength (BS 6319:Part 2)	60 MPa
Tensile strength (ISO R527)	8 MPa
Flexural strength (ISO 178)	17 MPa
Compressive modulus (BS 6319:Part 6)	3350 MPa
Adhesive strength to concrete (BS6319:Part 4)	Concrete failure
Fire Testing: EN13501: Part 1 Surface spread of flame (BS 476:Part 7)	B – S1 Class 2

The performance data is typical and based upon controlled laboratory conditions. Actual performance on

the job site may vary from these values based on actual site conditions.

Temperature Resistance

UCRETE IF floors are fully resistant to high temperature spillage and discharge up to 120 °C and are fully steam cleanable.

UCRETE IF is suitable for use where trafficked by racking with hot steel wheeled racks and bins, for example upon their removal from ovens or autoclaves.

Non Tainting

UCRETE IF is solvent free and non tainting.

Chemical Resistance

UCRETE IF offers exceptional resistance to a wide range of chemical aggressors.

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

With high mechanical strengths and a low elastic modulus, **UCRETE IF** 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

Abrasion Resistance

The carefully selected mineral and iron aggregates impart very high abrasion resistance characteristics. In heavy wear areas the iron becomes annealed on the surface providing long term protection.

Permeability

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

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.

Epoxy surface DPMs offer no benefit and should not be used with UCRETE floors.

Substrate Quality

Concrete substrates should be visibly dry and have a minimum tensile strength of 1.5 MPa.

PROPERTIES

UCRETE IF floors are available in 7 standard colours:

Green, Orange, Green/Brown, Red, Cream, Grey, Light Grey,

The UCRETE resin systems have been formulated to provide the very highest chemical and heat resistance. As



The Chemical Company

UCRETE® IF

a direct result some yellowing of the installed floor will occur in areas of direct UV exposure. This is most apparent in lighter colours.

Slip Resistance

The UCRETE IF surface profiles have coefficient of friction as determined to EN 13036 Part 4 using the 4S rubber on the wet floor as follows:

UCRETE IF 45 - 60

Optimum slip resistance can only be maintained with regular cleaning.

CONSUMPTION

Coverage

9 mm: 28 - 30 kg/m²

CURING

Normally UCRETE IF floors can be put into service within 24 hours.

PACKAGING

Ucrete part 1	2.52 kg
Ucrete part 2	2.86 kg
Ucrete part 3	17.3 kg
Ucrete part4	12.5 kg
Ucrete pigment	0.50 kg

CLEANING

Regular cleaning and maintenance will enhance the life and appearance of any floor. UCRETE IF is readily cleaned with industry standard cleaning chemicals and equipment. The use of alkaline based cleaners is recommended. Please consult your local cleaning chemical or equipment supplier.

STORAGE

Store in covered warehouse conditions, above 5°C and below 40°C, out of direct sunlight. Materials must be raised off the floor and kept dry. Parts 1 and 2 must be protected from frost.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

SUcretelF/v1/0410

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. **BASF Construction Chemicals data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue.**

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** 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 offices in ASEAN

Singapore

Tel: +65-6861-6766
Fax: +65-6861-3186

Malaysia

Tel: +60-3-5628-3888
Fax: +60-3-5628-3776

Indonesia

Tel: +62-21-526-2481
Fax: +62-21-526-2541

Thailand

Tel: +66-2-664-9222
Fax: +66-2-664-9267

Vietnam

Tel: +84-650-374-3100
Fax: +84-650-374-3200

Philippines

Tel: +63-2-811-8000
Fax: +63-2-838-1025

Website: www.ap.cc.basf.com