

Ucrete DP

Heavy duty non-slip polyurethane hybrid flooring system

Material Description

Ucrete DP has a unique heavy-duty Polyurethane hybrid technology with exceptional resistance to aggressive chemicals, heavy impact and temperatures from -25°C up to 130°C.

Ucrete DP is a family of products with defined surface profiles suitable for applications in wet and dry process environments. The system offers a uniformity of surface texture with a gloss or matt finish, so providing a safe and attractive working environment.

Ucrete DP is broadcast with Master Builders Solutions Fillers to increase surface texture and slip resistance. It is typically installed at 4, 6 & 9 mm thick.

It is dense and impervious, providing an ideal floor finish for applications in the food and beverage, pharmaceutical and chemical industries and wherever a robust long-lived floor is required.

Areas of Application

Ucrete DP is recommended for conditions requiring maximum chemical resistance and a slip-resistant surface.

- Specific applications include:
- Textile and film plants
- Food and beverage production
- Warehousing and storage
- Confectionery production
- Electronic component manufacture & assembly
- Pharmaceutical production
- Chemical plants
- The extremely robust aggregates used to provide the texture of Ucrete DP and are designed to maintain optimum slip resistance for many years. Where there is heavy hard wheeled traffic it is recommended that Ucrete DP 30 is used.

Characteristics and Benefits

- Expert application installed only by trained specialist contractors.
- Fast application and reduces downtime quick two step application, no need for scratchcoat in most cases. Can be applied to 7 -day-old concrete or 2day old polymer screeds.

- Fast return to service 8 hour access to foot traffic; 24 hours for vehicles at 23°C.
- Suitable for application and use in food production facilities

 non-tainting, non-dusting, unaffected by constantly wet
 floors or common food chemicals and microbiologically
 inert.
- High chemical resistance resists a wide range of organic and inorganic chemicals such as acids, alkalis, amines, salts and solvents.
- High mechanical resistance wear and high abrasion resistance due to use of calcined aggregates.
- High impact resistance will dent rather than star crack like epoxies maintaining floor integrity in harsh environments.
- Resistant to thermal cycling similar coefficient of thermal expansion to concrete.
- High Tg keeps physical characteristics from -25°C up to +130°C.
- Durable/long life more than 40 years of international use.
- Slip resistance defined Profile (DP) surface provides antislip surface Ucrete DP 10-R11, Ucrete DP 20-R13 and Ucrete DP 30-R13.
- Colours Grey, Cream, Yellow, Green, Red, Light Green and Light Grey.

Accreditation

- Ucrete has approval for use as flooring for HACCP accredited facilities.
- Ucrete conforms to The Leadership in Energy & Environmental Design Green Building Rating System LEED® being sustainable and environmentally friendly flooring materials.
- Ucrete floors have obtained the Indoor Air Comfort Gold certificate from Eurofins, with the low levels of emissions to the air and non-tainting properties.
- Ucrete complies with the U.S. Department of Agricul-ture (USDA) standards for use in federally inspected meat and poultry plants in the USA.





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Properties

Slip resistance* –			
Ucrete DP 10	P4		
Ucrete DP 20	P5		
Ucrete DP 30	P5		
Slip resistance* – DIN 51130			
Ucrete DP 10	RH		
Ucrete DP 20	RI3	V4	
Ucrete DP 30	RI3	V8	
Compressive Strength	48-58 MPa		
Flexural strength (ISO 178)	12 – 14 MPa		
Tensile strength (ISO R527)	5 - 7 MPa		
Adhesive strength	Concrete failure		
(BS6319:Part 4)			
Thermal expansion	4x 10 ⁻⁵ °C ⁻¹		
(ASTM C531:Part 4.05)			
Thermal conductivity (BS 874)	I.I W/m °C		
Water Adsorption	0 mL		
(CP.BM 2/67/2)			
Fire Testing (EN13501: Part 1)	BFL — SI		
Thickness range	Service temperatures		
4	-15°C to 70°C		
4mm 6mm	-25°C to 80°C -25°C to 120°C		
9mm			
211111			

Samples cured for 28 days at 20°C.

*Optimum slip resistance can only be maintained with regular cleaning. 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.

Substrate Moisture Tolerance

Ucrete is extremely tolerant to residual substrate moisture and can be installed directly onto 7day old concrete, or onto sound existing concrete (slab on ground) with high moisture contents without the use of special primers provided there is a functioning damp proof membrane below the slab. This enables rapid refurbishment work in wet process areas. Epoxy surface DPMs offer no benefit and should not be used with Ucrete floors.

UV Resistance

The Ucrete resin systems have been formulated to provide the very highest chemical and heat resistance. UV exposure though not affecting the performance of the Ucrete will result in yellowing of the floor which is most apparent in light colours.

Application

For detailed information about application, please obtain a copy of the Ucrete Application Manual from your local representative or our website.

Estimating Data

Ucrete DP should be installed as per the consumption rates given below:

Grade & Thickness	Consumption (kg/m²)			
Ucrete DP 10 @ 4mm				
Ucrete BASECOAT BC4	6 – 8			
Filler FI0	4 – 5			
Ucrete TC	0.4 - 0.6			
Ucrete DP 10 @ 6mm				
Ucrete BASECOAT BC6	10-12			
Filler FI0	4 – 5			
Ucrete TC	0.4 - 0.6			
Ucrete DP 10 @ 9mm				
Ucrete BASECOAT BC9	16-18			
Filler F10	4 – 5			
Ucrete TC	0.4 - 0.6			



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Ucrete DP 20 @ 4mm		
Ucrete BASECOAT BC4	6 – 8	
Filler F20	4 – 5	
Ucrete TC	- .2	
Ucrete DP 20 @ 6mm		
Ucrete BASECOAT BC6	10-12	
Filler F20	4 – 5	
Ucrete TC	– .2	
Ucrete DP 20 @ 9mm		
Ucrete BASECOAT BC9	16-18	
Filler F20	4 – 5	
Ucrete TC	- .2	
Ucrete DP 30 @ 4mm		
Ucrete BASECOAT BC4	6 - 8	
Filler F25	4 – 5	
Ucrete TC	- .2	
Ucrete DP 30 @ 6mm		
Ucrete BASECOAT BC6	10-12	
Filler F25	4 – 5	
Ucrete TC	I – I.2	
Ucrete DP 30 @ 9mm		
Ucrete BASECOAT BC9	16-18	
Filler F25	4 – 5	
Ucrete TC	- .2	

Packaging

Ucrete DP is supplied in three different grades and consists of Basecoat, Filler & Topcoat as follows:

	Pack size in kg			
	Pt I	Pt 2	Pt 3	Pt 4
Ucrete Basecoat BC4			13	
Ucrete Basecoat BC6	2.52	2.86	17.3	0.5
Ucrete Basecoat BC9			21	
Ucrete TC	0.765	1.09	1.36	0.5
Ucrete TC Gloss	0.83	1.09	1.36	0.5
Filler F10/F20/F25	25kg bags			

Storage

Store 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.

Precautions

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

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MB Solutions Australia ABN 69 634 934 419 11 Stanton Road Seven Hills NSW 214	, ,	MB Solutions New Zealand Ltd 45C William Pickering Drive Albany, Auckland New Zealand	Emergency Advice: 1300 954 583 within Australia (24hr) 0800 001 607 within New Zealand
Freecall: 1300 227 30 www.master-builders		Freecall: 0800 334 877	