

# Ucrete UD200

**Heavy duty polyurethane modified continuous floor, with high chemical resistance up to 150°C, thickness 6-9-12 mm, and quick return to service.**

## MATERIAL DESCRIPTION

Ucrete UD200 is a colored polyurethane-cement flooring, four-component, with a semi-opaque finish, with anti-slip and anti-slip characteristics. Applied from 6 to 12 mm, it allows the creation of continuous industrial floors that are extremely resistant to chemical attack, impacts, washing, drains and spills of liquids up to a temperature of 150°C. Also available in the Ucrete UD200 SR version with a very high degree of anti-slip.

Ucrete Industrial Flooring has been widely used throughout the industry for more than 50 years; many of the older floors are still in service. A detailed project reference list is available upon request.

## FIELDS OF APPLICATION

Ucrete UD200 is typically used in the food, pharmaceutical and chemical industries and in all those industrial environments where maximum chemical, impact, spill and washing resistance is required, even at high temperatures.

## FEATURES AND BENEFITS

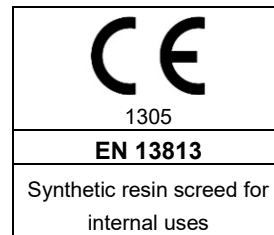
Ucrete UD200 has completely unique features such as:

- resistance to a multitude of aggressive chemicals such as inorganic acids, organic acids, alkalis, solvents, amines, etc. (the vast list of chemical resistances is available in a specific document);
- temperature resistance:
  - or 6 mm: it is completely resistant to the spillage and discharge of liquids up to 80°C and can be lightly steam cleaned. Suitable for cold storage temperatures down to -25°C;
  - or 9 mm: it is completely resistant to the spillage and discharge of liquids up to 120°C and can be completely steam cleaned. Suitable for cold storage temperatures down to -40°C;
  - or 12 mm: it is completely resistant to the discharge of liquids up to 130°C, occasionally to the spillage of liquids up to 150°C and can be completely steam cleaned. Suitable for cold storage temperatures down to -40°C;
- can also be applied on young concrete (at least 7 days);
- zero water absorption and complies with Government Legislative Decree no. Legislative Decree 193/2007

“EC Regulation 852/2004 concerning the hygiene of food products” (H.A.C.C.P.);

- complies with the requirements of the Consolidated Work Safety Act (Legislative Decree 81/2008) and subsequent additions;
- cleanliness and hygiene: it has the same degree of cleanability as stainless steel and does not constitute a nutritive environment for the growth of bacteria;
- non-slip: can be maintained simply by regularly cleaning the surface.

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 13813 and the relative DoP (Declaration of Performance).



## CONSUMPTION

Product	thickness, mm	kg/m <sup>2</sup>
Ucrete PSC	--	0.3
Product	thickness, mm	kg/m <sup>2</sup>
Ucrete UD200	6	13 - 16
	9	19 - 22
	12	24

## PACKAGING

Component	packaging	Kg
1	Tank	2,37
2	Tank	2,86
3	bag	24,80
4	Little Bag (reactive pigment)	0,5
Kit		30,53

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Technical data in accordance with UNI EN 13813		Limits and class	Performances
Adhesion to concrete	UNI EN 13892/8 on substrate MC (0,40) UNI EN 1766.	(MPa) B0,5, B1, B1,5, B2	Class B >2
Abrasion resistance	UNI EN 13892/4 (BCA)	AR6, AR5, ..... AR05	Class AR0.5
Impact resistance	UNI EN ISO 6272	IR J (J impact energy N·m)	IR > 4
Compressive strength	UNI EN 13892/2	(MPa): C5 ..... C70	> 50 MPa, Class C50
Tensile strength for bending	UNI EN 13892/2	(MPa): F1 ... F50	13 MPa, Class F15
Flexural modulus of elasticity	UNI EN ISO 178	(GPa): E1, E2, .... E20	4140 MPa, Class E2
Technical data in accordance with UNI EN 1504/2		Limits and class	Performances
Coefficient of linear thermal expansion	UNI EN 1770	-----	$3,65 \cdot 10^{-5} K^{-1}$
Permeability to water vapor	UNI EN ISO 7783/1	Class I: $S_d < 5$ m (Perm), Class II: $S_d \geq 5$ e $\leq 50$ m, Class III: $S_d > 50$ m (Non Per)	6 mm: $S_d < 18$ m 9 mm: $S_d < 27$ m 12 mm: $S_d < 36$ m
Slip / creep resistance	UNI EN 13036/4	Class I: wet test for internal surfaces: > 40 units; Class II: dry test for internal surfaces: > 40 units	Class I (40)  Class II
Coefficient of capillary absorption	UNI EN 1062/3	$< 0,1 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$	$0,001 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$
Fire reaction class	UNI EN 13501/1	A1 <sub>fl</sub> , A2 <sub>fl</sub> , B <sub>fl</sub> , C <sub>fl</sub> , D <sub>fl</sub> I, E1 <sub>fl</sub> , S1, S2	B <sub>fl</sub> -S1
Hydraulic pression technical data		Limits and class	Performances
Resistance to negative hydraulic pressure	UNI 8298/8	0 - 2,5 bar	2,5 bar

## APPLICATION SHEET

See the document "Ucrete Application Manual".

## CHEMICAL RESISTANCE

Ucrete MF offers exceptional resistance to a wide range of chemical aggressors.

See the document "Ucrete Chemical Resistances"

## CLEANING

Tools used for mixing and applying the material can be cleaned with polyurethane thinner.

## FLOOR CLEANING

For every detail relating to the cleaning aspects of the floor, always refer to the specific document "Ucrete Cleaning"

## STORAGE

Store the material in the original containers, in a dry and covered place at a temperature between 5 and 30°C. Do not expose to direct sunlight.

## WARNINGS

The physical chemical matrix of Ucrete systems can favour superficial yellowing phenomena of the coating in particular for areas subject to UV rays; the phenomenon is particularly evident for light shades.

## SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

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### OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website [www.master-builders-solutions.com/it-it](http://www.master-builders-solutions.com/it-it) or contact [infomac@mbcc-group.com](mailto:infomac@mbcc-group.com).

Scan the QR code to visit the product page and download the latest version of this datasheet.



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This version supersedes all the previous ones.