

Ucrete MF

Flow applied polyurethane modified continuous floor, with high chemical resistance up to 80°C, thickness 4-6 mm, and quick return to service.

MATERIAL DESCRIPTION

Ucrete MF is a unique heavy duty resin floor with exceptional resistance to aggressive chemicals.

It provides a smooth protective floor finish suitable for applications in the food, pharmaceutical and manufacturing industries including clean room, laboratory, packing hall and warehouse applications and wherever a robust, long lived floor is required.

Applied for thicknesses from 4 to 6 mm, it allows the creation of continuous industrial floors that are extremely resistant to chemical attack, shocks, washing, drains and the spreading of liquids at temperatures up to 80°C (6 mm).

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 MF is typically used in the food, pharmaceutical, chemical industry and in all those industrial environments where chemical resistance, to impacts, to spreading and washing up to 80°C for 6 mm and 70°C for 4 mm is required, such as processing and storage areas subject to light / medium traffic (forklift trucks).

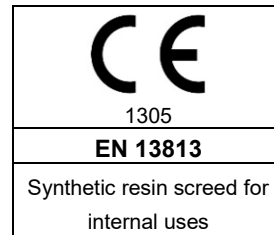
FEATURES AND BENEFITS

Ucrete MF has completely unique features such as:

- resistance to a multitude of aggressive chemicals such as inorganic acids, organic acids, alkalis, solvents, amines, etc. (the very extensive list of chemical resistances is available in a specific document);
- temperature resistance:
 - 4 mm: it is completely resistant to the spreading and discharge of liquids up to 70°C. Suitable for cold temperatures down to -15°C
 - to 6 mm: it is completely resistant to the spreading and discharge of liquids up to 80°C and can be slightly steam cleaned. Suitable for cold temperatures down to -25°C
- it can also be applied on young concrete (at least 7 days);
- no water absorption and complies with the Government Legislative Decree No. Legislative Decree 193/2007 "EC Regulation 852/2004 concerning the hygiene of food products" (H.A.C.C.P);

- compliant with the requirements of the Consolidated Safety at Work (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 nutritional environment for the growth of bacteria;

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 ²
Ucrete PLC	1	2
Product	thickness, mm	kg/m ²
Ucrete MF	4	8 – 10
	6	12 -14

PACKAGING

Component	packaging	Kg
1	Tank	2,52
2	Tank	2,86
3	bag	14,40
4	Little Bag (reactive pigment)	0.5
Kit		20,28

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.

Ucrete MF

Flow applied polyurethane modified continuous floor , with high chemical resistance up to 80°C, thickness 4-6 mm, and quick return to service.

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	17 MPa, Class F15
Flexural modulus of elasticity	UNI EN ISO 178	(GPa): E1, E2, E20	3230 MPa, Class E2
Technical data in accordance with UNI EN 1504/2		Limits and class	Performances
Coefficient of linear thermal expansion	UNI EN 1770	-----	$6,56 \cdot 10^{-5} K^{-1}$
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)	4 mm: $S_d < 8 m$ 6 mm: $S_d < 12 m$
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	$< 0,1 kg \cdot m^{-2} \cdot h^{-0,5}$	$0,001 kg \cdot m^{-2} \cdot h^{-0,5}$
Fire reaction class	UNI EN 13501/1	A1 _{fl} , A2 _{fl} , B _{fl} , C _{fl} , D _{fl} I, E1 _{fl} , S1, S2	B _{fl} -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"

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.

Ucrete MF

Flow applied polyurethane modified continuous floor , with high chemical resistance up to 80°C, thickness 4-6 mm, and quick return to service.

OTHER SERVICES

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

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



Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

Master Builders Solutions Italia Spa

Via Vicinale delle Corti, 21 – 31100 Treviso – Italia

T +39 0422 429200 F +39 0422 421802

www.master-builders-solutions.com/it-it

e-mail: infomac@mbcc-group.com

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.