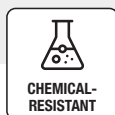


DUROGLASS CRETE TOP

HIGH RESISTANCE PU CEMENT FINISH
FOR SELF-LEVELLING AND MULTI-LAYER APPLICATIONS



CHARACTERISTICS

HACCP certified product number I-PE-863-ITA-1-RG-01.

Quick setting.

Excellent **chemical resistance** to various aggressive agents.

Good mechanical properties.

Resistance to thermal-shock.

Resists temperature peaks **up to 70° C**.

Resists the proliferation of microorganisms.

Allows **surface roughness** adjustments.

Contributes to obtaining credits for **LEED** certification.

Meets the requirements of the **13813** standard for synthetic resin-based screeds.

APPLICATION TEMPERATURE

Applicable **from +10°C to +30°C** (substrate) d.p. > 3°C.

OPERATING TEMPERATURE

Operating temperature **from -45°C to +120°C** in air.

FIELD OF APPLICATION

Finish for concrete polyurethane systems. Concrete floor coating for:

- **food** industries
- **dairy** industries
- **wine, brewing** and **liquor** industries
- **pharmaceutical** and chemical industries where high chemical and solvent resistance is required.
- **mechanical** and **manufacturing** industries and when high resistance to loads and continuous passages of wheeled vehicles is required.

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SUBSTRATE PREPARATION

DUROGLASS CRETE TOP is to be applied as a finish directly on cement-based polyurethane coatings.

The surfaces must be dry, clean and free from contaminants.

PRODUCT PREPARATION

Three-component product to be mixed thoroughly before use, operating as follows:

- Homogenize component A using an electric mixer, then add component B and mix for 30 seconds. Make sure staining is uniform.
- Gradually add component C to the previously obtained mixture. Mix for a further two minutes until a homogeneous consistency is obtained.

Given the particularity of the product, it is advisable to shake component A and component B separately before mixing them together.

DILUTION AND COLOUR

Do not dilute the product for any reason.

The product is available in the neutral converter version, which can be coloured with:

- 0.22 Kg of **HYDRAGLASS** colour paste.

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PRODUCT APPLICATION

The high speed of product curing requires adequate site organization.

DUROGLASS CRETE TOP can be applied to:

- Roller
- Rubber trowel
- Smooth trowel

DUROGLASS CRETE TOP can be applied to the entire range of **DUROGLASS CRETE** polyurethane cement, making sure to distribute the product evenly on the floor.

Pass a short-haired roller over the still fresh product to uniform the material on the surface.

The **DUROGLASS CRETE TOP** product can be applied in one or two coats with a consumption of 0.3 – 0.6 kg/m² per coat.

It is possible to load the product with different granulometry quartz in order to obtain more or less rough surfaces.

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WARNINGS AND PRECAUTIONS

- Do not apply **DUROGLASS CRETE TOP** on substrates polluted by oils, greases or dirt in general.
- Do not mix partial quantities of the components in order to avoid making mistakes in the mixing ratio which would cause incorrect product curing.
- Do not expose the mixed product to sources of heat.
- **DUROGLASS CRETE TOP** coatings exposed to sunlight undergo showy colour changes; this phenomenon does not affect the performance of the coating in any way.
- The colour of the coating may also undergo variations following contact with aggressive chemicals; the colour variation alone is not an indication of chemical aggression on the coating.
- Remove, as soon as possible and where possible, any aggressive chemical that comes into contact with the **DUROGLASS CRETE TOP** coating.
- Protect the product from water for at least 24 hours after installation.
- We recommend applying **Scotch Brite** at the end of laying, once hardened, in order to remove and surface dust.
- During application, protect the substrate from leaks from pipes, fixtures, systems in general, etc.

SAFETY AND CLEANLINESS

When applying these products, it is recommended to use goggles, masks and rubber gloves and all the PPE required by current regulations.

Work tools must be cleaned with the thinner **DILUENTE 6** after use.

For more information regarding the precautions for use, please refer to the safety data sheet.



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TECHNICAL DATA		
Colour		RAL Colours
Specific weight	UNI EN ISO 2811-1	1,89 ± 0.05 Kg/l
Pot life at 20°C	UNI EN ISO 9514	15 minutes
Mix ratios		Comp. A: 100 Comp. B: 85 Comp. C: 119
Non-volatile substances	UNI EN ISO 3251	> 99,9 %
Curing at 22°C, 50% R.H.		- over application 24 hours min–72 hours max - light traffic: 6-8 hours - drive-over with light weight: 24 hours - drive-over with medium weight: 48 hours - fully cured: 5-7 days
Adhesion to concrete	UNI EN 13892-8	> 3,0 MPa
Impact resistance	UNI EN ISO 6272-1	>10 Nm
Slip resistance	UNI EN 13036-4	>40 dry >40 wet
Wear-resistance	UNI EN 13892-4	< 30 µm
Resistance to Compression	UNI EN 13892-2	> 50 MPa
Bending resistance	UNI EN 13892-2	> 15 MPa
Elastic modulus	EN 13412	1530 MPa
Shore D hardness	EN ISO 868	80
Resistance to severe chemical attacks	UNI EN 13529	Sulphuric acid 20%: Class II Sodium Hydroxide 20%: Class II Sodium chloride 20%: Class II Lactic acid 10%: Class II
Storage		The product in its original sealed packaging kept in a dry and protected place at temperatures between +5°C and +35°C will keep for. 12 months component A, 12 months for component B, 6 months for component C. Protect from frost.

The data and instructions given in this sheet, based on the best practical and laboratory experiences, are to be considered in any case indicative. Considering the different conditions of use, and the intervention of factors independent of MPM (support, environmental conditions, technical laying direction, etc.) whoever intends to use it is required to establish whether or not the product is suitable for use. Our warranty obligation is limited to the quality and constancy of the finished product for the above data, only for technical sheets accompanied by stamp and countersignature by our delegated personnel. site. Furthermore, the customer is required to verify that these values are valid for their relevant batch of product and are not superseded and/replaced by subsequent editions and/or new formulations. The data contained may vary at any time without prior notice by MPM.

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CHEMICAL RESISTANCE					
Testing Liquid	Liquid Temp. °C	Concentration %	Good Resistance	Limited Resistance	No Resistance
Acetaldehyde	20	100	■		
Acetic Acid	85	10	■		
Acetic Acid	20	25	■		
Acetic Acid	85	25		●	
Acetic Acid	20	40	■		
Acetic Acid	20	90		●	
Acetone	20	100		●	
Adipic Acid	20	Saturated	■		
Ammonium hydroxide	20	28	■		
Aniline	20	100	■		
Aqua regia	20	–		●	
Beer	20	–	■		
Benzene	20	100		●	
Benzoic acid	20	100	■		
Benzoyl chloride	20	100	■		
Blood	20	–	■		
Brake fluid	20	–	■		
Butanol	20	100	■		
Calcium chloride	20	50	■		
Calcium hypochlorite	20	Saturated	■		
Caprolactam	20	100	■		
Carbon disulphide	20	100		●	
Carbon tetrachloride	20	100	■		
Chlorine water	20	Saturated	■		
Chloroacetic acid	20	10	■		
Chloroacetic acid	20	50		●	
Chloroform	20	100		●	
Chromic acid	20	20	■		
Chromic acid	20	30	■		
Citric acid	20	60	■		
Copper (II) sulphate	20	Saturated	■		
Cresols	20	100		●	
Crude oil	20	–	■		
Cyclohexane	20	100	■		
Decanoic (Capric) acid	20	100	■		
Decanoic (Capric) acid	60	100	■		

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CHEMICAL RESISTANCE					
Testing Liquid	Liquid Temp. °C	Concentration %	Good Resistance	Limited Resistance	No Resistance
Diethylene glycol	20	100	■		
Dimethyl formamide	20	100			○
Ethanol	20	100	■		
Ethyl acetate	20	100		●	
Ethylene glycol	20	100	■		
Ethylene glycol (Antifreeze)	20	100	■		
Fats	80	–	■		
Formic acid	20	40	■		
Formic acid	20	70	■		
Formic acid	20	90		●	
Formic acid	20	100		●	
Gasoline	20	–	■		
Heptanoic acid	60	100	■		
Hexane	20	100	■		
Hydrochlorid acid	60	10	■		
Hydrochlorid acid	20	37	■		
Hydrofluoric acid	20	4	■		
Hydrofluoric acid	20	20		●	
Hydrogen peroxide	20	30	■		
Isopropanol	20	100	■		
Jet fuel	20	–	■		
Kerosene	20	–	■		
Lactic acid	20	5	■		
Lactic acid	60	25	■		
Lactic acid	20	85	■		
Lactic acid	60	85	■		
Lauric acid	60	100	■		
Maleic acid	20	30	■		
Maleic anhydride	20	100	■		
Methacrylic acid	20	100	■		
Methanol	20	100	■		
Methylated spirits	20	–	■		
Methylene chloride	20	100		●	
Methyl ethyl ketone	20	100		●	
Methyl methacrylate	20	100	■		
Milk	20	–	■		

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CHEMICAL RESISTANCE

Testing Liquid	Liquid Temp. °C	Concentration %	Good Resistance	Limited Resistance	No Resistance
Mineral oils	20	–	■		
Motor oil	20	–	■		
N, N-dimethyl acetamide	20	100			○
N-methyl pyrrolidone	20	100			○
Nitric acid	20	5	■		
Nitric acid	20	30	■		
Nitric acid	20	65		●	
Oleic acid	20	100	■		
Oleic acid	80	100	■		
Oleum	20	–		●	
Paraffin	20	–	■		
Perchloroethylene	20	100	■		
Phenol	20	5		●	
Phenyl sulphuric acid	20	10	■		
Phosphoric acid	85	40	■		
Phosphoric acid	20	50	■		
Phosphoric acid	20	85	■		
Picric acid	20	50	■		
Propylene glycol	20	100	■		
Potassium hydroxide	20	50	■		
Sodium chloride (Brine)	20	Saturated	■		
Sodium hydroxide	20	20	■		
Sodium hydroxide	90	20	■		
Sodium hydroxide	20	32	■		
Sodium hydroxide	20	50	■		
Sodium hydroxide	60	50	■		
Sodium hydroxide	90	50		●	
Sodium hypochlorite	20	15	■		
Styrene	20	100	■		
Sulphuric acid	20	50	■		
Sulphuric acid	20	98		●	
Tetrahydrofuran	20	100		●	
Toluene	20	100	■		
Toluene sulphonic acid	20	100	■		
Trichloroacetic acid	20	100		●	
Turpentine	20	–	■		

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CHEMICAL RESISTANCE

Testing Liquid	Liquid Temp. °C	Concentration %	Good Resistance	Limited Resistance	No Resistance
Vegetable oils	80	–	■		
Water (distilled)	85	–	■		
White spirit	20	–	■		
Xylene	20	100	■		