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TopSealer®

TopSealer® WT Dragon
Two-component varnish

TopSealer® WT Dragon is especially recommended as a protective sealant for microcement both indoors and outdoors. It is recommended as a sealant for flooring, sports courts, wood, parquet, wet areas or high-traffic areas, and in general for those surfaces that require a good aesthetic finish and protection.

Properties

- Excellent resistance to water and chemical agents (see Table). Low permeability to liquid water and moderate breathability, which helps maintain the durability and good condition of the structure.
- Very good abrasion resistance and high hardness.
- Suitable for both exterior and interior use, on vertical and horizontal surfaces.
- Does not yellow under the action of sunlight.
- Compatible with a wide range of media.
- Easy to apply.
- Available in various degrees of gloss (Supermatte, Matte, Satin and Gloss)

Technical details

PROPERTIES	SPECIFICATION	UNIT	METHOD
Nature Comp. A	Water-based polyacrylate		
Density Comp. A	1,03±0.01	g/cm³	UNE-EN ISO 2811-1
Viscosity at 23°C Comp. A	130-150	mPa·s	EN ISO 3219
Non-volatile contents Comp. A	22-23	%	UNE-EN ISO 3251:2020
pH Comp. A	7-8		UNE-EN ISO 19396-1:2020
Features Comp. B	Aliphatic polyisocyanate		
Non-volatile contents % Comp. B	100	%	UNE-EN ISO 3251:2020
Density Comp. B	1,14±0,1	g/cm³	UNE-EN ISO 2811-1
Viscosity Comp. B	700-1500	MPa·s	UNE-EN ISO 2555
PROPERTIES A+B (3:1)	**SPECIFICATION**	**UNIT**	**METHOD**
Non-volatile contents Comp. A+B	45-47	%	UNE-EN ISO 3251:2020
Gloss (Supermatt/Matt/Satin/Gloss)	<5/ 5-7 / 15-35 / 35-80	Gu	UNE-EN ISO 2813
Persoz hardness 7 days	250	s	UNE-EN ISO 1522
VOC: 2024/42/IIA(j)(140) Max. VOCs	<5	g/L	
Pot life at 23°C	60	min	
Yield (2 layers)	5-8	m²/L	
Application temperature	15-30	°C	
Drying time between layers	18-36	hours	
Total curing time	7	days	

CHEMICAL RESISTANCE:
Medium absorption method UNE-EN ISO 2812-3:2020

Legend
5: No visible changes.
4: Slight change, only visible with a change in light
3: Moderate visible mark.
2: Significant mark without affecting surface structure.
1: Significant mark, affects the surface structure.
The results obtained are based on the application of two layers of varnish, with six hours between layers and after seven days of application. Contact with the chemical agent tested was for 1, 3, 8, 24, 48 hours and one week.

DRAGON TOP SEALER

	Contact time					
PRODUCT	**1H**	**3H**	**8H**	**24H**	**48H**	**7 days**
WATER	5	5	5	5	5	5
SOAP	5	5	5	5	5	5
BLEACH	5	5	4	4	-	-
VINEGAR	5	4	4	3	-	-
OIL	5	5	5	5	-	-
WINE	5	5	4	4	-	-
AMMONIA CLEANING	5	5	4	-	-	-
ALCOHOL (70°)	4	4	3	-	-	-
SALFUMÁN	4	3	3	-	-	-
CAUSTIC SODA 10%	4	4	3	-	-	-
4.9% W/W HYDROGEN PEROXIDE	5	5	4	-	-	-

Certifications

CE marking. Declared performance according to harmonised standard EN-1504-2 within the following system:

- 1 layer of non-absorbent primer: PRIMACEM PLUS
- 2 layers of microcement preparation + resin: NATTURE L + ACRICEM
- 2 layers of microcement finish + resin: NATTURE S + ACRICEM
- 2 layers of pore filler sealant: PRESEALER
- 2 layers of premium resistance water-based varnish (A+B): TOPSEALER WT DRAGON

BENEFIT	RESULT	SPECIFICATION	METHOD
Determination of liquid water permeability	w = 0.0084 kg/m^2·h0,5	w < 0.1 kg/m²·h0,5	UNE-EN 1062-3:2008
Determination of water vapour permeability	S_D=24.85 (g/m² per day)	Class I: S_D<5m (permeable to water vapour) Class II 5m ≤ S_D ≤ 50m Class III S_D>50m (impermeable to water vapour)	UNE-EN ISO 7783:2019
Determination of adhesion by direct traction	σ = 2.43 MPa	Rigid Systems: ≥1.0 (0.7)b N/mm² (without traffic loads) and: ≥2.0 (1.5)b N/mm² (with traffic loads) Flexible systems: ≥0.8(0.5)b N/mm² (Without traffic loads) and ≥1.5(1.0)b N/mm² (With traffic loads) (Without traffic loads) and ≥1.5(1.0)b N/mm² (With traffic loads)	UNE-EN 1542:2000
Determination of carbon dioxide permeability	SD (m) = 58.3697 ± 5.78	SD>50 m	UNE-EN 1062-6:2003
Determination of abrasion resistance	31 milligrams	<3000mg	UNE-EN ISO 5470-1:2017

Preparation of the substrate

Before varnishing, the surface must be properly prepared. It must be dry, clean and free of dust, grease or dirt. If it has been previously varnished or painted, the old coating must be removed, especially if it is damaged or deteriorated. This can be done by sanding or stripping, ensuring that the surface is left in good condition. If repair, consolidation or sealing of joints is required, proceed before applying the primer.

On mineral, cementitious or microcement surfaces, it is recommended to apply Presealer beforehand. Apply a layer of Presealer and allow at least 12 hours to elapse before sealing with TopSealer® WT Dragon. For correct application of Presealer, see the product's technical data sheet.

Application

Homogenise component A, then mix with component B by stirring at low speed in a ratio of 3 parts (in kg) of TopSealer® WT Dragon Component A to 1 part of TopSealer® WT Component B. The pot life at 23ºC is 1 hour.

It is recommended to apply a layer of Presealer before sealing with A TopSealer® WT Dragon. Apply two layers of A TopSealer® WT Dragon, allowing 18 to 36 hours drying time between layers. We recommend using a short-pile velour roller or microfibre roller for application, although it is also suitable for application with a brush or spray gun. The first layer should be sanded with 400-grit sandpaper; the final layer does not require sanding.

Limitations and Information to Bear in Mind

- It is necessary to respect the drying times, as otherwise chemical resistance may be reduced, and there may also be a decrease in gloss or surface defects due to repellency.
- Both Presealer and TopSealer® WT Dragon should not be applied at temperatures below 15°C or above 30°C, as low temperatures and high ambient humidity delay drying and impair the appearance of the coating. Check adhesion in a corner or hidden area before proceeding with full varnishing.
- Allow the polyurethane to cure for at least one week. Polyurethanes reach their full chemical properties after 7-14 days, depending on environmental conditions (humidity and temperature). Do not wet or use detergents before the indicated curing time.
- As a sealant, the product waterproofs microcement against running water (occasional contact), but it is not a waterproofing agent against standing water (permanent contact). Clean with a non-abrasive damp cloth and our Ecoclean detergent or, failing that, with neutral soap to prolong the life of the sealant. Do not use aggressive cleaning products such as bleach, acetone or hydrochloric acid.
- Good adhesion and compatibility have been verified between Topciment sealants: TopSealer® WT Dragon and TopSealer® WT All in One. Therefore, if a layer of TopSealer® WT Dragon needs to be applied to a substrate sealed with TopSealer® WT All in One, only light sanding with 400-grit sandpaper is required before applying the layer of TopSealer® WT Dragon. Likewise, good compatibility has been verified between TopSealer® WT Dragon, TopSealer® WT 100, TopSealer® WT DSV and TopSealer® WT PRO+ FAST. Please note that the resulting gloss will depend on the degree of gloss of the first layer.
- Do not place any type of carpet/doormat before the 15-day curing period has elapsed.

Special precautions

It is essential to follow the instructions on the container label. For further information, consult the product safety data sheet. Empty containers must be disposed of in accordance with current legal regulations.

Presentation

It comes in 3L (Component A) + 1L (Component B) containers.

Cleaning tools

Tools should be washed with soap and water immediately after use.

Storage conditions

The product should be stored in its original sealed container and protected from the elements at temperatures between 10ºC and 30ºC, in a dry, well-ventilated place, away from sources of heat and direct sunlight. The shelf life is 1 year from the date of manufacture, when stored properly.

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Last update: January 2026