

Concrete Finish WT Max.

Concrete Finish WT Max is a two-component water-based polyurethane varnish with excellent chemical resistance and high performance for the protection of microcement in wet areas such as bathrooms, high traffic areas and outdoor spaces.

Available in gloss, satin and matt.



Properties

- Easy to apply.
- Excellent resistance to chemicals and water (see table).
- Drying time: 12-24 hours between coats.
- Good resistance to abrasion and scratches.
- No yellowing under the action of sunlight.
- Compatible with a wide range of substrates

Uses and fields of application

Two-component polyurethane varnish for the protection and sealing of surfaces with a decorative finish. Formulated with hydroxylated polyester resins and isocyanates in a water-based, which give it extraordinary performance. It presents great transparency as well as a remarkable resistance to yellowing.

The varnished substrate is sealed, while maintaining its breathability to water vapour. It is highly resistant to wear, dirt and certain chemicals.

Ideal for application on our microcement system, conventional lime mortar and cement mortar. It presents a very natural finish on wood, protecting it from wear and tear and the from wear and tear and weathering. For the renovation of parquets and as a transparent protective varnish for walls, floors and paving in general. As a sealer, it waterproofs microcement against running water (occasional contact), but it is not a waterproofing agent against watertight water (permanent contact).

Check the chemical resistance table for cleaning the microcement coating, depending on the substances that may be poured on it.

Technical Data

- Colour: colourless, transparent (in dry film)
- Appearance: gloss, satin, matt.
- König hardness (14 days curing): 200 seconds
- Total solids (A+B): 42±1%.

Mixing

Shake component A before use to homogenise the product and allow to stand for 30 minutes. Then mix the 2 components by stirring at low speed in the ratio of 3 parts (in kg) of Component A Concrete Finish WT Max to 1 part of Component B Concrete Finish WT Max (catalyst). The pot life of the mixture (component A + component B) is 60 minutes at 20°C.

Consumption

Consumption for Concrete Finish WT Max:

- 0,15 L/m² (2 coats)

Characteristics of Comp. A

- Dispersion of waterborne polyacrylate and aliphatic diisocyanates
- Solids: 22±2%
- Viscosity (CF - 4) : 25±3s at 25°C
- pH: 7 - 8

Characteristics of Comp. B

- Aliphatic diisocyanate
- Solids: 100
- Flash point: 105°C
- Density at 25°C: 1,045 - 1,055 g/mL

Maintenance

- Allow the polyurethane to dry for at least one week before wetting.
- Polyurethanes reach their full chemical properties after two weeks.
- Do not use detergents or coatings before two weeks.
- Clean with a damp cloth and our Concrete Clean detergent or neutral soap to prolong the life of the sealant. Do not use aggressive cleaning products such as bleach, acetone or salfumán.

Preparation of the substrate

Before varnishing, the substrate 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 previous coating must be removed, especially if it is damaged or deteriorated. This can be done by sanding or stripping, making sure to leave the surface in good condition. If repair, consolidation or sealing of joints is required, proceed prior to installation.

On mineral, cementitious or micro-cement surfaces it is recommended to apply Primacrete Finish beforehand. Apply two coats of Primacrete Finish and allow at least 12 hours to elapse before sealing with Concrete Finish WT Max.

In the case of wood, pre-seal with a wood sealer lacquer and sand, according to the manufacturer's instructions. Subsequently apply two coats of Concrete Finish WT Max.

Application

Prior to sealing with Concrete Finish WT Max it is recommended to use a primer (Primacrete Finish). For best results, it is recommended to apply two coats of Primacrete Finish, drying time between coats 4h. After 12h, apply 2 coats of Concrete Finish WT Max, allowing a drying time of at least 12h between coats. If the drying time between coats exceeds 24h, the product will repel. It is necessary to respect the drying times otherwise the chemical resistances may decrease, the gloss may decrease in the case of satin and satin finish or surface defects may appear due to repellency.

Primacrete Finish and Concrete Finish WT Max must not be applied below 15°C and not above 30°C, as low temperatures and high humidity delay drying and impair the appearance of the coating.

The first coat is sanded with 400 grit and the last coat does not require sanding. Check the adhesion in a corner or hidden area before proceeding with the total coating. Allow the polyurethane to cure for at least one week. Polyurethanes reach their full chemical properties after 7-14 days, depending on the environmental conditions (humidity and temperature).

It can be applied by spray, brush or roller, covering the surface well.

Special precautions

Follow the instructions in the safety data sheet.
It is recommended to comply at least with the following measures:

- Good ventilation.
- Protective goggles to prevent splashing.
- Rubber gloves.

In case of contact with eyes, flush with plenty of water for 15 minutes.
In case of contact with skin wash with soap and water. Do not swallow. If swallowed do not induce vomiting and seek medical attention immediately. Do not dilute with water.
Empty containers must be disposed of in accordance with current legislation.
Keep out of the reach of children.

Test report

Resistance to liquids. Absorbent medium method UNE EN2812-3/UNE EN13442

Appearance	Assessment
No visible change (no damage).	5
Slight change in gloss or colour; visible only when the light source is reflected on the test surface or very close to the mark and is reflected back to the eye of the observer, or some isolated marks are barely visible.	4
Moderate marking visible under different angles, e.g. the full outline of the filter paper is barely visible.	3
Major marking, but the surface structure remains unchanged.	2
Major marking, where the surface structure is altered or the material is completely or partially removed or the filter paper adhered to the surface.	1

Substance	Mate			Satinado			Brillo		
	Tiempo								
	3h	8h	24h	3h	8h	24h	3h	8h	24h
Water	5	5	5	5	5	5	5	5	5
Bleach	5	5	5	5	5	5	5	5	5
Soda 30%	5	5	3	5	4	3	4	4	2
Oil	5	5	4	5	5	5	5	5	5
Vinegar	5	5	4	5	5	4	5	4	2
Salfuman (HCl)	3	3	2	4	4	2	4	4	2
Wine	5	4	4	5	5	5	5	5	3
Soap 10%	4	4	4	5	5	5	5	5	4
Soap 10% 4 days			4			4			4

Packaging

Available in 3L (Component A) +1L (Component B) packs.

Cleaning of tools

Tools are washed with soap and water immediately after use.

Storage conditions

The product should be stored in its original closed packaging and protected from the weather at temperatures between 10°C and 30°C, in a dry and well ventilated place, away from sources of heat and direct sunlight.
The shelf life is 1 year from the date of manufacture, if stored properly.

Shelf life of the product

The shelf life of the mixture (component A + component B) is 60 minutes at about 20°C