



CRYSTAL POOL

PRODUCT DESCRIPTION

CRYSTAL POOL is a single-component, satin-effect, acrylic resin based, water-dispersed, solvent-free paint, with excellent resistance to water and to the aggressions of chemical agents. It is available in white, sand and blue with the possibility of customised colours.



PRODUCT APPLICATION

- Pools, ornamental tanks, channels and fountains
- Where necessary, finish with paint that is suitable for permanent contact with drinking water. Contact VOLTECO Technical Service for particular uses.

ADVANTAGES

- Excellent water resistance even with chlorine and chemical agents
- Suitable for contact with drinking water
- Great resistance to UV radiation
- Solvent-free
- Easy and quick application
- Good coating capacity

PREPARATION AND APPLICATION Preparing the surfaces

Level the surfaces with suitable cement-based levelling, taking care to seal any cracks in the substrate with a suitable Volteco system.

Waterproofed substrate with PLASTIVO

Make sure that the curing time of PLASTIVO has been completed (see relative technical data sheet). Once the curing process is complete, apply PROFIX 80 primer (see related technical data sheet).

Cement-based surface

The surface must have a minimum compressive strength of 15 N/mm² and the relative humidity must not exceed 10%.

Thoroughly clean the surfaces by brushing or low-pressure washing to remove all traces of dust, dirt, salt deposits, efflorescence and loose parts.

Apply PROFIX 80 primer (see related technical data sheet).

Preparing the product

CRYSTAL POOL is ready for use, it can be diluted with water up to a max of 5%, depending on the substrate and the ambient temperature.

Application

Shake CRYSTAL POOL before use, then apply the first coat of product (with a thickness of about



CRYSTAL POOL

100÷125 microns) using the RULLO PLASTIVO or a medium bristle brush or an airless machine (membrane type, diameter of nozzle 1.5-2 mm) by applying the film continuously, fresh on fresh, in order to avoid shading in the connecting areas.

Leave to set for 4-6 hours in normal conditions (+20°C and 60% RH) and then apply the second layer in the same way (for a thickness of about 100÷125 micron).

Proceed with a possible third coat if the previous coats did not require the necessary minimum product consumption to reach the total thickness of 200-250 microns.

Once the application is complete, clean the tools well under running water and remove dry paint with a nitro thinner.

Non-slip finish

Should you wish to make CRYSTAL POOL floor surfaces non-slip, such as stairways, walkways or baby-pool bottoms, apply PROFIX 80 with quartz sand additive in the mix (see PROFIX 80 technical data sheet) or, alternatively, apply the specific GRIPPER mineral aggregate on PROFIX 80 while still fresh by spraying with a sandblaster or by hand with a 1 mm sieve, proceeding in a continuous solution without interruption and, if necessary, by sectors whose perimeter must be made to coincide with any joint-covering tapes that may be present on the bottom.

After at least 24 hours of curing have passed, remove the excess filler by exposing the rough surface, then spread CRYSTAL POOL evenly in at least two layers as previously described.

Periodic maintenance

On an annual basis and to maintain the aesthetic quality, we recommend timely repainting surfaces.

This maintenance must be carried out as follows:

- Sand the surfaces with sandpaper to eliminate any soiled parts and to help the new paint stick
- Thoroughly wash at low pressure, removing the sanding residue
- Apply two coats of paint on the worn sections (see preparation and application), and it is advisable to apply at least one coat on areas that are in good condition

Curing

Leave the second layer dry at least 15 days in suitable environmental conditions (+20°C and 60% RH) before filling the newly painted tank.



References available at www.volteco.com

CONSUMPTION AND YIELD

CRYSTAL POOL approximately 0.32-0.40 l/m² depending on the roughness of the surface.

GRIPPER inert mineral approximately 0.90-1.4 kg/m² (also consider 1 kg/m² of surplus product to obtain even coverage, which is subsequently recovered).

PACKAGING AND STORAGE

CRYSTAL POOL is packed in 14 l and 4 l containers.

The product must be stored in a dry place without being exposed to frost and heat (at a temperature between +5°C and +30°C) or direct exposure to the sun before being applied.

Storage time 12 months.

WARNINGS - IMPORTANT NOTES

Store the packages in a dry place and still sealed (see storage).

Do not apply CRYSTAL POOL with high humidity, ambient and substrate temperatures below +10°C or above 30°C or in the likelihood of rain within 5 days after the product is applied (referring to periods of average temperature +20°C and 60% R.H.).

During all CRYSTAL POOL cycle installation stages the surfaces must be protected from rain (temporary coverage is recommended) without impeding correct ventilation.

Avoid applying the product on surfaces with condensation.

The temperature of the substrate must be at least 3°C higher than the dew point.

A high temperature can significantly reduce its workability time.

Avoid applying under strong sunlight.

Low temperature conditions may extend the product maturation times in the cycle and relevant curing times/rain proof or similar.



CRYSTAL POOL

The final paint colour may vary slightly from that of the sample or the colour selected from the colour chart.

It is therefore recommended to always paint a test area before starting the actual job.

Minor variations do not constitute the right to make a claim.

There may be slight shade variations in various production batches; it is therefore recommended to use colours of the same batch to paint one surface.

When applied in closed environments, provide adequate ventilation and/or heating to guarantee suitable curing.

Avoid placing concentrated products (disinfectants, PH correction products) directly in contact with CRYSTAL POOL.

Excessively concentrated shock treatments can deteriorate the coating.

CRYSTAL POOL is a product that is applied in an environment that is subject to strong deterioration.

Exposure to direct light and/or water may lead to the whitening of the coating and colour changes.

Avoid extended contact with plants as they could leave traces on the painted surface, therefore, we recommend covering outdoor pools when out of season.

We recommend to carefully following the indications in this data sheet and to implement the maintenance program.

The preparation and installation data refer to normal environmental conditions (temperature +20 °C; relative humidity 60%).

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Values		
Appearance	Satin-effect paint		
Application temperature	+5 °C +30 °C		
Specific weight	1.20 +/- 0.05 kg/l a 20 °C		
Specification	Test method	Declared performance	
Crack Bridging Ability (PLASTIVO 180 + PROFIX 80 pack)	UNI EN 14891	0.5 mm	
Water impermeability	UNI EN 1062-3	0.075 kg/m ² *h ^{0.5}	
Adhesion to the concrete with PROFIX 80	UNI EN 1542	> 2 Mpa	
Specification	Certification		
Suitable for contact with drinking water (Italian Ministerial Decree 174 of 06/04/2004: global transfer)	CHELAB Srl Report n° 17/000512262		
Suitable for contact with drinking water (Italian Ministerial Decree 174 of 06/04/2004: specific transfer)	CHELAB Srl Report n° 18/000023307		
Specification	Category	Test method	Certified performance (**)
VOC content	CAT. I - BA high-performance single-component paints Maximum limit: 100 g/l	Directive 42/2004/EC	30 g/l

SAFETY

Refer to the related Safety Data Sheet.

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LEGAL NOTES

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CRYSTAL POOL

document.