



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

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

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.

Then apply BI MORTAR ULTRA SEAL (see relevant 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 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 (room temperature +20°C; room humidity 60%) and then apply the second layer in the same way (for a thickness of about 100÷125 micron).

If the total thickness of 200-250 microns is not achieved with the first two coats, apply a third coat to ensure the correct final thickness.

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 BI MORTAR ULTRA SEAL with quartz sand additive in the mix (see BI MORTAR ULTRA SEAL technical data sheet) or, alternatively, apply the specific GRIPPER mineral aggregate on BI MORTAR ULTRA SEAL 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, remove the excess aggregate, exposing the rough surface, then spread CRYSTAL POOL evenly.

Periodic maintenance

Annually and in order to maintain the aesthetic quality, it is recommended to carry out maintenance work that includes repainting the surfaces.

Mode of intervention:

- Sand the surfaces with sandpaper to eliminate any soiled parts and to help the new paint stick
- Wash by low-pressure hydro-washing to remove dust, sanding residues and impurities, ensuring a clean and dry surface.
- Proceed with the two-coat repainting of CRYSTAL POOL, following the specifications in the 'Application' section.

Curing

Leave the second layer dry at least 15 days in suitable environmental conditions (room temperature +20°C; room humidity 60%) 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.

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 prolonged contact with plants as they may leave traces on the painted surface and, over time, chemically alter the protective layer.

It is therefore advisable to cover outdoor pools when not in use and to carry out periodic cleaning to preserve the surface.

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

PHYSICAL AND TECHNICAL SPECIFICATIONS

| Specification | Values |
|-------------------------|-------------------------|
| Appearance | Satin-effect paint |
| Application temperature | +10°C +35°C |
| Specific weight | 1,20 ± 0,05 kg/l a 20°C |

| Feature | Test method | Declared performance |
|--|---------------|---|
| Crack Bridging Ability (PLASTIVO 180 + BI MORTAR ULTRA SEAL 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 BI MORTAR ULTRA SEAL | UNI EN 1542 | > 2 Mpa |

| Feature | Certification |
|--|--------------------------------------|
| Suitable for contact with drinking water (Italian Ministerial Decree 174 of 06/04/2004: global transfer) | CHELAB Srl Report n° 17/000512262 |

| Feature | 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 |

The quoted data are obtained in a laboratory at +20°C and 60% RH.

WATCH VIDEOS AND INSIGHTS

Safety Data Sheets

Declaration of performance

Specifications

Technical diagrams and DOPs

EPD Declaration

YouTube Video



SAFETY

Refer to the related Safety Data Sheet.

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