



CONCRESEAL®

POOL

EPOXY-CEMENT MORTAR WITH DECORATIVE NATURAL FINISH FOR SWIMMING-POOLS

DESCRIPTION

CONCRESEAL® POOL is a two-component, epoxy-cement mortar designed as a decorative natural finish and durable protection of swimming-pools with thickness between 3,0 and 5,0 mm.

Once applied, it provides a natural look and mineral finish of the surface, in a monolithic, continuous, and seamless layer, without joints or overlapping, available in different colours.

APPLICATION FIELDS

- Decorative finish and protection of swimming-pools, fountains, artificial lakes, waterfalls and any type of water retaining structure.
- Renovation projects on old swimming-pools with ceramic tiles, where a different and natural look is desired.
- Protection on **MAXSEAL**, **MAXSEAL SUPER** and **MAXSEAL FLEX** with a high abrasion, impact and wearing resistance, in wastewater treatment plants, water channels, pipelines, dams, etc.

ADVANTAGES

- Total UV-resistance with long-term colour stability and no yellowing process.
- It is resistance to chlorides, salty water, marine water. Long-lasting solution. No needs additional protective top-coatings. No maintenance required.
- Provides a monolithic finish with natural look which becomes part of the substrate.
- High impact, abrasion and wearing resistance.
- Permeable to water vapour diffusion, it does not create a vapour barrier.
- Very good adhesion on substrate. No primer/bonding agent is required.
- Fully compatible with waterproofing cement coatings **MAXSEAL**, **MAXSEAL FLEX**, **MAXSEAL SUPER**, etc.

- Easy and quick to apply by trowel or spray methods.
- Environmentally friendly: non-toxic, VOC's free, and solvent-free product.

APPLICATION INSTRUCTIONS

Surface preparation

Substrate must be structurally sound, solid, without cement laitance. For applications on old renders, tensile strength should be at least 1,0 N/mm². Surface must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, gypsum plasters, organic growth or any other contaminants that may affect to adhesion.

Surface defects, voids and static cracks without movement, once opened and routed to a minimum depth of 2,0 cm, must be repaired previously with **MAXREST®** (Technical Bulletin No. 2) to provide a sound and even surface.

Rebars and other metal elements exposed during the substrate preparation should be cleaned and passivated with **MAXREST® PASSIVE** (Technical Bulletin No. 12), while non-structural and surface iron elements must be cut to a depth of at least 2 cm and then covered with **MAXREST®**.

Applications carry out on cement waterproofing coatings (**MAXSEAL FLEX**, **MAXSEAL SUPER**, etc), check the curing-time specified on each product Technical Bulletin.

Once substrate has been repaired and cleaned, it must be saturated thoroughly with water before applying **CONCRESEAL® POOL**, but do not leave free standing water. If surface gets dry, proceed to saturate with water again.

Mixing

CONCRESEAL® POOL is supplied as a two-components product. Pour the resin, component A, into a clean container and add the powder gradually, component B, while mixing with a low speed mixing drill (400 – 600 rpm) equipped with inox mixer disc such as **MAXMIXER®**. Mix for 3-5 minutes until a homogeneous colour mortar and free of lumps is achieved. Do not add water and keep liquid/powder ratio as per the packaging supplied. Depending on existing temperature, pot-life expected will be between 30 – 40 minutes. Do not mix more product which can not be applied within this time.

Application

Trowel application:

Apply the mortar onto surface by metal trowel or plastic float in an even and continuous layer with a recommended thickness from 3,0 to 5,0 mm.

When mortar starts to set, i.e., from 20 to 30 min depending on temperature conditions, surface can



be finished to achieve the final appearance desired.

Spray application:

Fill and level previously any honeycomb or non-structural void deeper than 3 mm with **CONCRESEAL® POOL** by trowel.

Then, spray a continuous and homogeneous layer of **CONCRESEAL® POOL** with 3 to 5 mm thickness and covering areas from 6 to 8 m², with a suitable spray pump such as **DRIZORO® PUMP M1**. Finish surface with plastic float or metal trowel before mortar starts to set (about 20 – 30 minutes) depending on temperature conditions.

Application conditions

For applications at hot temperatures and/or windy conditions, i.e., summertime, surface must be wet thoroughly with plenty of water prior to application.

Prevent a quick drying of **CONCRESEAL® POOL** and protect from direct sunlight when applying with hot temperatures (above 30°C), working preferably on shadow areas, and planning job early morning or close to sunset.

Do not apply with temperatures above 35°C. Do not apply if substrate and/or ambient temperature is expected to be below 5°C in 24 h after application. Do not apply when rain is expected within 24 h after application.

Curing

Do not apply curing agents or wet surface after application.

In case of hot temperatures (above 30 °C) and/ or windy conditions, protect application from direct sunlight with wet burlaps or sacks.

Allow **CONCRESEAL® POOL** to cure for at least 7 days (20°C and 50% R.H.) before water immersion. Lower temperatures will increase the curing time.

Cleaning

All tools and equipment must be cleaned immediately with water after use. Once product hardens, this can only be removed by mechanical means.

CONSUMPTION

Estimated consumption of **CONCRESEAL® POOL** is 2,0 kg/m² per mm thickness (from 6 to 10 kg/m² for a layer thickness from 3 to 5 mm respectively). These theoretical figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on jobsite to ascertain the total consumption exactly.

PACKAGING

CONCRESEAL® POOL is supplied in 30 kg set. Liquid epoxy component "A" in 5 kg can and powder cement component "B" in 25 kg sack. It is available in 6 different colours: light grey, dark grey, white, ivory, sand and light blue. Other colours by request.

STORAGE

Twelve months in its unopened and undamaged original packaging. Store in a cool, dry, and

covered place, protected from moisture, freezing and direct sunlight, at temperatures above 5°C.

IMPORTANT INDICATIONS

- Do not add cement, additives, aggregates, or other compounds.
- Do not use leftovers from previous mixes to mix a new sack.
- Keep constant mixing ratio components A + B and the thickness layer applied, otherwise slight differences in colour intensity may be noticed.
- To restore the workability, remix briefly the mortar again but never adds more resin or water. Mix and use. Do not mix more material than can be applied in 20-30 minutes.
- Do not exceed the maximum recommended thickness per layer.
- Try to work and cure the fresh mortar under similar exposition conditions. Differences in curing conditions such as shadow areas and direct sunlight areas, may produce differences in setting-time of the fresh mortar and therefore slight differences in colour intensity.
- Allow new concrete and renders a curing time of 28 days before application.
- Do not apply on vitrified or enamelled substrates, or with water repellents. Do not apply on bituminous materials, wood, or paints.

- When applying over existing mortars or renders, compatibility, strength, and adhesion testing of the substrate must be checked and ensured.
- For other uses not specified on this Technical Bulletin or further information, consult our Technical Department.

SAFETY AND HEALTH

CONCRESEAL® POOL is not a toxic product but is an abrasive composition. Avoid direct contact with skin and eyes. Use rubber gloves and safety goggles during application. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **CONCRESEAL® POOL**.

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

TECHNICAL DATA

| Product characteristics | |
|--|---|
| General appearance and colour | White liquid epoxy resin Powder in different colours |
| -Component A | |
| -Component B | |
| Maximum aggregate size, (mm) | < 0,4 |
| Density, (g/cm ³) | |
| -Component A | 1,05 ± 0,10 |
| -Component B | 1,3 ± 0,10 |
| Density cured mortar A + B (g/cm ³) | 1,8 ± 0,10 |
| Mixing A + B (% by weight) | 17 ± 1 |
| Application and curing conditions | |
| Minimum/ Maximum application temperature for substrate and ambient, (°C) | > 5 / < 35 |
| Waiting time for finishing at 20°C and 50 % R.H., (min) | 20 / 30 |
| Curing time before water immersion at 20°C and 50 % R.H., (d) | 7 |
| Cured product characteristics | |
| Compression strength at 28 days, EN 1015-11 (MPa) | 30,5 |
| Flexural strength at 28 days, (EN 1015-11 (MPa) | 6,0 |
| Adhesion on concrete, EN 1015-12 (MPa) | >1,5 |
| Thickness / Consumption* | |
| Thickness per layer, (mm) | 3,0 - 5,0 |
| Consumption per mm thickness (kg/m ²) | 2,0 |
| Consumption per layer 3,0 – 5,0 mm thickness (kg/m ²) | 6,0 – 10,0 |

* These estimative figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on jobsite to ascertain the total consumption exactly.

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