

Domissima

BUILT
BY
EXPERTS

Domoreflex Pool



Special micromolecular coating for swimming pools

DOMOREFLECT POOL is one-component, micromolecular, water-soluble coating with modified acrylic and polyurethane resins, highly resistant in direct and permanent contact with water.

Field of application

DOMOREFLECT POOL is suitable for application in:

- Swimming pools
- Water tanks
- Artificial ponds
- Fountains
- Any surface in permanent contact with water
- Waterproof concrete surfaces and surfaces which are already waterproofed with DOMOLASTIC
- All construction materials (mortar, concrete, brick, stone, tile, plasterboard, etc.)

Advantages

- Excellent coverage
- Fully waterproof
- Fiber reinforced
- Eco-friendly
- Resistant to chlorinated water
- Elastic (bridges cracks)
- Water vapor permeable but not water permeable
- UV resistant
- No chalking is incurred
- Washable even with water under pressure without any local tarnishing
- It can be applied also on epoxy solvent paint.

Method of use

Substrate condition:

New pool constructions should be waterproofed externally with coating DOMOSLURRY (2 layers) and internally with two-components coating DOMOLASTIC (applied in 2-3 layers with spatula and use of reinforcement, see Technical Data Sheet).

Old pool walls should also have waterproofing coatings externally and internally.

If no internal waterproofing coating exists, should follow the steps below

- Abrasion entirely of pre-existing pool paint.
- Filling-repairing with DOMOREPAIR, depending on substrate's condition.
- Cement smoothing with DOMORESIN after 24 hours.
- Application of DOMOLASTIC in 2-3 layers with spatula and use of reinforcement after 10 days, in order the previous cement mortar to develop sufficient strength.

If there is an internal waterproofing coating, then the pre-existing pool paint (epoxy or not) should be scrubbed to remove at least the last layer.

If case of recoating on DOMOREFLECT POOL no scrubbing is required.

Application:

On surfaces waterproofed with DOMOLASTIC, the DOMOREFLECT POOL should be applied after 10 days, in order the substrate to be matured.

The substrate before application should be defuse any trapped moisture.

1st layer (as primer): DOMOREFLECT POOL diluted 10% w/w with water.

2nd-3rd layers: DOMOREFLECT POOL undiluted.

Apply with a roll, brush or airless.

Additional information:

- During the application and the curing of the paint, the humidity should be relatively low (<70%) that no dew is concentrated onto the applied surface.

- Surfaces once painted with DOMOREFLECT POOL, should be protected from rain, as the contact with the water before the curing of the paint will affect the adhesion.
- For economy and convenience apply primer and one layer blue DOMOREFLECT POOL on blue DOMOLASTIC.
- Pools painted with DOMOREFLECT POOL are ready for use 14 days after the last application layer. Warning, traffic and working is not allowed on painted pools before the lapse of 14 days.
- The pools should be maintained, filled with water throughout the year and disinfected properly (according to DIN 19643: the calculation of the amount of disinfectant is depending on the content of active chlorine, which should be 0.3-0.6 g/m³).
- In cases of high concentrations of high chemical disinfectant concentrations in the pool water or debris (such as leaves, pine needles, mud), there is risk of discoloration. In such cases the DOMOREFLECT POOL does not lose its strength but involves repainting for aesthetic reasons.
- If active oxygen is used for the disinfection of water, there is a high risk for DOMOREFLECT POOL, depending on the concentration of the disinfectant, not to be suitable for the particular application (in this case, contact the Technical Support department).
- If specific systems are used for water disinfection (e.g. salt electrolysis), then it should be considered the suitability of DOMOREFLECT POOL for the particular application.

Consumption

200-250 g/m² per layer depending on the nature of the substrate.

Storage

Can be stored for at least 12 months from production date in the original pail, in a cool environment protected from frost and direct sunlight.

Packaging

Pails of 1 kg, 5 kg & 15 kg.

Colors

Sky blue, white and beige (RAL 1015). Other colors available on request.

Certificates

The product is certified according to EN 1504-2 (Concrete Protection Systems), in categories 1.3-Ingress Protection (IP), 2.2-Moisture Control (MC) and 8.2-Increasing Resistivity (IR).

Volatile Organic Compounds

EU REGULATION 2004/42: According to Directive 2004/42/EU (Annex II, Table A), the maximum allowed content of VOC (Product Category i / Type WB) is 140 g/L (limits of 2010) for the final product. The final DOMOREFLECT POOL contains max <140 g/L.

Specifications

Form	Liquid
Shading/Colors	Sky Blue, White, Beige (RAL 1015)
Specific weight	1.34 ± 0.04 kg/L (23°C)
Viscosity	8000-15000 cP (23°C)
Application temperature	+10°C to +30°C
Dried on touch	1 hour
Recoating	24 hours
Full hardening (Pool filling)	14 days
CO ₂ diffusion (EN 1062-6)	520 m
Water vapor permeability (EN ISO 7783)	0.29 m (Class I)
Capillary water absorption (EN 1062-3)	0.01 kg/m ² h ^{0.5}
Adhesive strength (EN 1542)	4.01 N/mm ²
Crack bridging ability (EN 1062-7)	2.4 mm (A4)
Characterization EN 1504-2	Ingress Protection - Moisture Control - Increasing Resistivity

All the technical data stated in the present Technical Data Sheet are based on laboratory tests and the knowledge and experience of the company. Different conditions may apply at field applications that are beyond the control of the company. Therefore, the end user is ultimately responsible to make sure that the product is suitable for the application in question and to know the real conditions of the project.