

Domissima

BUILT
BY
EXPERTS



Domoreflex Pool PU2K

Two component, aliphatic polyurethane pool paint

DOMOREFLECT POOL PU2K is a two component paint, based on aliphatic polyurethane, specific for exterior and interior pools, which offers protection and mechanical strength without being affected by direct sunlight.

Field of application

DOMOREFLECT POOL PU2K is suitable for application on:

- 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

- No addition of solvent is required.
- Non-yellowing and resistant to UV radiation.
- Excellent coverage.
- High bonding strength.
- High abrasion resistance.
- Easy cleaning with pressured water >6 atm.
- Resistance to pool disinfection chemicals (chlorine and oxygen).
- High resistance to water, cleaners, oils and lubricants.

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.

Prior to product application, primer the substrate with epoxy primer DOMOPOX FLOOR PRIMER or SERITAL PRIMER W if substrate is moist.

Mixing:

Mixing ratio:

A (paste):B (liquid) 3:1 w/w

The components A and B are packed in a default mixing ratio.

Component B is added to component A.

The two components are mixed with an electric agitator of low power (300 rpm). The mixing time should be at least 5 minutes until the mix is completely homogeneous.

Application:

The well-mixed DOMOREFLECT POOL PU2K is applied on the well-prepared support by roller, brush or airless spraying machine (beck 21-25). DOMOREFLECT POOL PU2K is applied in two layers. The second layer should be applied crosswise once the first layer is completely dry.

Additional information:

- The product is sensitive to humidity and should not be applied in moist conditions (>60%). Therefore, avoid application during the morning hours (especially in winter).
- Surfaces once painted with DOMOREFLECT POOL PU2K, 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 PU2K on blue DOMOLASTIC.
- Pools painted with DOMOREFLECT POOL PU2K 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 PU2K does not lose its strength but involves repainting for aesthetic reasons.
- If specific systems are used for water disinfection (e.g. salt electrolysis), then it should be considered the suitability of DOMOREFLECT POOL PU2K for the particular application.
- Uncured product is cleaned with solvent. After curing it can only be removed mechanically.
- After the end of the operations, the used tools must be washed thoroughly with the special cleaner DOMOPOX CLEANER.

Consumption

100-150 g/m² per layer on smooth substrates.

Storage

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

Packaging

Component A (paste): pails of 3 kg.

Component B (liquid): pails of 1 kg.

Colors

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

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 j / Type SB) is 500 g/L (limits of 2010) for the final product. The final product DOMOREFLECT POOL PU2K contains max <500 g/L.

Specifications

	Component A	Component B
Form	Paste	Liquid
Colors	Sky Blue, White, Beige (RAL 1015)	
Specific weight	1.22 ± 0.04 kg/L (23°C)	1.01 ± 0.03 kg/L (23°C)
Mix ratio	A : B 3 : 1 w/w	
Specific weight of mix	1.14 ± 0.04 kg/L (23°C)	
Application temperature	+10°C to +30°C	
Dried on touch	1 hour	
Maximum tensile stress (EN ISO 527-3)	>15 MPa	
Elongation at break (EN ISO 527-3)	>110%	
Elastic modulus (EN ISO 527-3)	>40 MPa	
Capillary water absorption (EN 1062-3)	0.05 kg/m ² h ^{0.5}	
Adhesive strength (EN 1542)	3.45 N/mm ²	

Application & hardening times

Pot Life

Temperature	+10°C	+20°C	+30°C
Time	90 minutes	60 minutes	45 minutes

Time between layers (DOMOREFLECT POOL PU2K on DOMOPOX FLOOR PRIMER/SERITAL PRIMER W)

Substrate Temperature	+10°C	+20°C	+30°C
Minimum	24 hours	16 hours	10 hours
Maximum	48 hours	48 hours	36 hours

Time between layers (DOMOREFLECT POOL PU2K on DOMOREFLECT POOL PU2K)

Substrate Temperature	+10°C	+20°C	+30°C
Minimum	24 hours	16 hours	10 hours
Maximum	48 hours	48 hours	36 hours

Applied product ready to be used

Temperature	+10°C	+20°C	+30°C
Walkability	48 hours	24 hours	18 hours
Light Load	7 days	5 days	3 days
Full Hardening	14 days	10 days	7 days

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.