

# Domissima Serital Pool

BUILT  
BY  
EXPERTS



CE  
EN 1504-2  
IP - MC - IR

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## Two component pool epoxy coating

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SERITAL POOL is a two-component aqueous epoxy coating. A Swiss technology product which is used as a protective coat both on horizontal and vertical surfaces that come into direct and permanent contact with water.

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### Field of application

SERITAL 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

- Water vapor permeable – can be applied also on moist substrate!
- Not affected by ambient humidity.
- High bonding strength to the support.
- Excellent abrasion resistance.
- Easy cleaning with pressured water >6 atm.
- Does not require a primer – saves on material & work cost.
- Easy to use because of A:B = 1:1 mixing ratio.
- Resistance to pool disinfection chemicals (chlorine and oxygen).
- Non toxic.
- Odorless and totally harmless during and after application.

### 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.

#### Mixing:

Mixing ratio:

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

The components A and B are packed in vessels 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.

The final mix must be consumed within 45 minutes (at 20°C).

#### Application:

The well-mixed SERITAL POOL is applied on the well-prepared support by roller, brush or spraying equipment (nozzle 19-23).

SERITAL POOL is applied in two layers. Crosswise application is recommended to assure full protection. The second coat is applied after the first layer is completely dry.

### Additional information:

- During the application, but also during the curing of the coating, the humidity of the environment should be at relatively low levels (<70%) in order no dew to be condensed on the applied surface.
- In case of existing humidity in certain parts of the substrate, discolorations may appear until the humidity goes away.
- Surfaces once painted with SERITAL 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 SERITAL POOL on blue DOMOLASTIC.
- Pools painted with SERITAL 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/m<sup>3</sup>).
- In pools with overflow surfaces, there is a possibility that the sun exposed surfaces to be yellowed slightly. In this case the recommended recoating the surface for aesthetic reasons.
- 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 SERITAL POOL 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 SERITAL POOL for the particular application.
- After the end of the operations, the used tools must be washed thoroughly with plenty of water.

### **Consumption**

150-200 g/m<sup>2</sup> per layer on smooth substrates.

### **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**

Component A: pails of 7.5 kg, 3 kg and 1 kg.

Component B: pails of 7.5 kg, 3 kg and 1 kg.

### **Colors**

White, blue, beige (RAL 1015). Other colors available on request.

### **Certificates**

The product is certified according to EN 1504-2 (concrete surface protection systems), in categories 1.3-Ingress Protection (IP), 2.2-Moisture Control (MC) and 8.2-Increased Resistance (IR).

The product is accompanied by test reports conducted by:

- The Swiss Concrete Test Laboratory LPM AG, Beinwil am See,
- The Swiss National Laboratory EMPA Dübendorf.

### **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 WB) is 140 g/L (limits of 2010) for the final product. The final SERITAL POOL contains max <140 g/L.

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## Specifications

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	Component A	Component B
Form	Paste	Liquid
Shading/Colors	White, Blue, Beige (RAL 1015)	
Specific weight	1.32 ± 0.04 kg/L (23°C)	1.02 ± 0.03 kg/L (23°C)
Viscosity	300-350 cP (23°C)	5700-6700 (23°C)
Mix ratio	A : B 1 : 1 w/w	
Specific weight of mix	1.30 ± 0.04 kg/L (23°C)	
Mix viscosity	2300-2800 cP (23°C)	
Application temperature	+10°C to +30°C	
Resistance to abrasion (EN ISO 54/0-1)	895 mg	
Permeability to CO <sub>2</sub> (EN 1062-6)	92.5 m	
Water vapor permeability (EN ISO 7783)	0.8 m (Class I)	
Water absorption (EN 1062-3)	0.06 kg/m <sup>2</sup> h <sup>0.5</sup>	
Adhesive Strength (EN 1542)	2.7 N/mm <sup>2</sup>	
Characterization EN 1504-2	Ingress Protection - Moisture Control - Increasing Resistivity	

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## Application & Hardening Times

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### Pot Life

Temperature	+10°C	+20°C	+30°C
Time	70 minutes	45 minutes	25 minutes

### Time between layers (SERITAL POOL on SERITAL POOL)

Substrate temperature	+10°C	+20°C	+30°C
Minimum	24 hours	16 hours	12 hours
Maximum	48 hours	48 hours	48 hours

### Applied Product

Temperature	+10°C	+20°C	+30°C
Walkability	48 hours	24 hours	12 hours
Light Load	7 days	4 days	3 days
Full Hardening	14 days	10 days	10 days

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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.