Domissima Serital

BUILT BY EXPERTS

Low VOC

CE EN 1504-2 IP - MC - IR

Two component water dispersion epoxy coating

SERITAL is a solvent-free, aqueous, two-component epoxy resin coating. A Swiss technology product which is used as a final protective coat on cement based supports, stone, plaster, ceramic, metal, glass, asphalt, wood, etc., on horizontal as well as vertical surfaces.

Field of application

SERITAL is suitable for application in:

- Industrial areas
- Tunnels, Cut & Covers, underground works
- Storage rooms
- Parking houses
- Swimming pools
- Food processing industries
- Garages
- Hospitals
- Laboratories
- All kinds of metal surfaces (under certain conditions)

For exterior use it is recommended to protect the final layer from the UV radiation and to reinforce its strength by applying the transparent polyurethane coating SERITAL PT.

Advantages

- Water vapor permeable – can be applied also on moist substrate!
- 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.
- Resistant to chemical attacks.
- Non toxic.
- Odorless and totally harmless during and after application.

Method of use

Substrate condition:

The application surface must be stable, sound and free of any materials that prevent the proper adherence of the product, as dust, loose pieces, grease, etc. Any existing cracks and holes must be repaired before the application of the product.

Prepare the surface by means of grinding sandblast, etc., depending on the nature of the substrate. Clean the surface thoroughly from the dust with a high power vacuum cleaner, or water under pressure.

SERITAL can be applied on fresh concrete or mortar, and is recommended for floors with humidity.

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^{o}C).

Application:

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

SERITAL 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:

- In case of existing humidity in certain parts of the substrate, discolorations may appear until the humidity goes away.
- After the end of the operations, the used tools must be washed thoroughly with plenty of water.

Consumption

150-200 g/m^2 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), light grey (RAL 7035) and dark grey (RAL 7042). 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 contains max <140 g/L.

Specifications

	Component A	**Component B**
Form	Paste	Liquid
Shading/Colors	White, Blue, Beige (RAL 1015), Light grey (RAL 7035) Dark grey (RAL 7042)	
Specific weight	1.32 ± 0.04 kg/L (23ºC)	1.02 ± 0.03 kg/L (23ºC)
Viscosity	300-350 cP (23ºC)	5700-6700 (23ºC)
Mix ratio	A : B 1 : 1 w/w	
Specific weight of mix	1.30 ± 0.04 kg/L (23ºC)	
Mix viscosity	2300-2800 cP (23ºC)	
Application temperature	+10ºC to +30ºC	
Resistance to abrasion (EN ISO 54/0-1)	895 mg	
Permeability to CO_2 (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^{2}h$^{0.5}$	
Adhesive Strength (EN 1542)	2.7 N/mm^2	
Characterization EN 1504-2	Ingress Protection - Moisture Control - Increasing Resistivity	

Application & Hardening Times

Pot Life			
Temperature	+10ºC	+20ºC	+30ºC
Time	70 minutes	45 minutes	25 minutes
Time between layers (SERITAL on SERITAL)			
Substrate temperature	+10ºC	+20ºC	+30ºC
Minimum	24 hours	16 hours	12 hours
Maximum	48 hours	48 hours	48 hours
Applied Product			
Temperature	+10ºC	+20ºC	+30ºC
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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