
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**, which can be also used for interior use and with the addition of the appropriate glass beads it can give anti-slipping properties.

Advantages

- Water vapor permeable – can be applied also on moist substrate!
- It is not affected by the environment 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.
- 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 1 hr and 15 minutes (at 20°C).

Application:

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

The first layer of SERITAL is diluted with water 5-10% by weight. As soon as the first layer is dry, SERITAL must be applied in two successive layers without dilution. Crosswise application is recommended to assure full

protection. The third coat is applied after the second 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

350-400 g/m² totally 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	1.5 ± 0.04 kg/L (23°C)	1.01 ± 0.03 kg/L (23°C)
Mix ratio	A : B 1 : 1 w/w	
Specific weight of mix	1.28 ± 0.04 kg/L (23°C)	
Application temperature	+10°C to +30°C	
Resistance to abrasion (EN ISO 54/0-1)	895 mg	
Permeability to CO ₂ (EN 1062-6)	>50 m	
Water vapor permeability (EN ISO 7783)	<5 m (Class I)	
Water absorption (EN 1062-3)	<0.1 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	+10°C	+20°C	+30°C
Time	2 hours	1 hour and 30 minutes	50 minutes

Time between layers (SERITAL on SERITAL)

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

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.