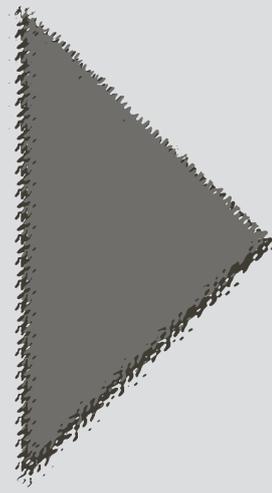


# RESINLAST S

Tech. Sh. FS21

## FRP SYSTEM

Technologies and materials for consolidation



## Bi-component acrylic-polyurethane enamel for indoor and outdoor applications

### Description

RESINLAST S is a colored bicomponent high quality enamel, based on acrylic resins hydroxylated, non-modified, crosslinked with aliphatic isocyanates, for the protection of concrete, cement mortars and iron in anti-corrosion cycles.

RESINLAST S forms thermosetting shiny film, with good mechanical resistance to wear and scratching. The concrete and mortars are subject to continuous aggression due to polluted atmospheres (acid rain) which penetrate the concrete and will quickly lower the pH by attacking the inside until rusting reinforcement steel bars; RESINLAST S applied as a topcoat over a primer as RESINLAST PRIMER C gives effective protection, durable and aesthetically very valuable.

- Good resistance to acid and basic solutions diluted, acid rains, salt solutions used as antifreeze, fuels, oils and lubricants;
- excellent UV color stability and gloss and weather resistance which allows application indoor and outdoor;
- has a high covering power that allows paintings with low consumption;
- fast hardening: the product is painted over after a few hours after application;
- physical and mechanical characteristics that are stable over time;
- it can be washed with high pressure water jet, even with hot water or with detergents and degreasers concentrates thus allowing a better cleaning of the surface.

### Areas of use

Execution of waterproof protective coatings of concrete, cast on site or prefabricated, surfaces smoothed with cement plaster for indoor and outdoor applications, subject to the exposure of the elements and iron/steel structures as topcoat in anti-corrosion cycles.

#### Indoor use

- garages, basements, utility rooms (elevator, boiler room) to improve the appearance and make it easy to clean the surface;
- warehouses and garages for easy cleaning;
- workplaces with presence of acids and bases.

#### Outdoor use

- protective coating of concrete structures of bridges, viaducts and road works, subject to weathering;
- very resistant finishing of iron/steel handworks: bridges, railings, walkways, shelters, containers, machinery and industrial equipment;
- painting of interior walls plastered or treated with skimming mortars, to make surfaces washable;
- painting of outdoor concrete tanks and sewage treatment plants in the chemical and pharmaceutical industry, with good resistance to acid and basic solutions at low concentration;
- Sport: topcoat wear of concrete bleachers;
- painting of casted or prefabricated concrete cornices and balconies.

### Technical characteristics

Appearance of the hardened film	55-60 gloss
Thickness of the hardened film for single layer	40-80 $\mu\text{m}$
Adhesion to concrete(with RESINLAST PRIMER C)	> 4,0 N/mm <sup>2</sup>
Adhesion to steel (*)	> 2,0 N/mm <sup>2</sup>
Cross-hatch test on steel	ISO 0 - ASTM 5B
Solid content (mass)	61 %
(volume)	49 %
Resistance to abrasion:	
Taber (500 g 17 weights concrete wheel, 500 cycles)	20 mg
Taber (500 g 17 weights concrete wheel, 1000 cycles)	50 mg
VOC (Reg. 2004/42/CE - cat. A/j-BS-500 g/l)	370 g/l
Viscosity at 25°C (A+B)	3200-4500 cP
Specific weight of the mixture	1,27 kg/dm <sup>3</sup>
A + B mixture ratio	100 + 20

(\*) this value refers to product applied with RESINLAST PRIMER M.

## How to use

### Preparation of the support

The surface to be treated must be clean, healthy, dry, crumbly part and cement grout-free: best adhesion is achieved by hardening it with sand-blasting, sand-papery, acid washing, smoothing or shot-peening treatment. Remove any trace of dust and dirt using an aspirator.

Application on metals requires accurate preparation of the support: elimination of oils, fats, varnishes and rust through abrasive process or white metal sanding (SA 2 – SA 3 degree).

### Application of the primer or bottom coat

RESINLAST S can be applied directly on concrete or metal.

To obtain a coating with higher performance (chemically aggressive environments or the need for frequent washing at high pressure and/or with hot water), apply a primer as RESINLAST PRIMER C on concrete surfaces or cement plaster; in anticorrosion cycles of metal surfaces, apply two coatings with primer RESINLAST PRIMER M.

### Preparation of the product

Pour component B into component A and blend at slow speed for 3' – 5' using drill with helix/spiral to reduce air inlet as much as possible; during this operation, carefully scrape also the bottom and the sides of the bucket.

### Application

Apply with a brush, roller or airless spray (nozzle diameter 0.20 - 0.30 mm), in one or two coats, with an average consumption of 100 to 200 g/m<sup>2</sup>.

The roller application on less absorbent surfaces can result in formation of microbubbles; it is advisable to slightly dilute the product and apply several light layers; use rollers mohair shorthair, specific polyurethane finishes.

### Notes

For spray or brush the product is ready for use; in case of roller application, add the antibubble additive sold together with the product to reduce the risk of formation of bubbles and wrinkling of the surface that can occur with this type of processing.

Do not apply the product thick layers: a consumption higher than indicated can lead to the formation of bubbles or cracks.

Do not apply with humidity above 60%, and when the ambient temperature exceeds 35 ° C or is below 10 ° C.

Do not work on rainy days and in the hours immediately after the rain; in particular for outdoor applications on concrete or plaster, make sure the surface is dry.

The presence of water has a negative influence on adhesion; substrates wet must be dried as much as possible with compressed air.

## Use and hardening times

Following mixture, the reaction between the two components takes place immediately. Processing time is therefore limited and depends on temperature.

Temperature	Pot life	Tack free	Paintable again after
10°C	6 hours	120-130 min	12 hours
20°C	4 hours	70-80 min	8 hours
30°C	3 hours	30-60 min	6 hours

The values were determined with thicknesses of about 100 microns.

It's not recommended application at temperatures below + 5 °C and above + 30 °C.

The complete hardening occurs after seven days at a temperature not lower than 20 °C.

## Consumption

RESINLAST S

To achieve hard and compact films, consumption ranges from 100 to maximum 200 g/m<sup>2</sup> coat; higher consumption results in a reduction of surface hardness.

RESINLAST PRIMER C

Consumption ranges from 300 to maximum 400 g/m<sup>2</sup>.

RESINLAST PRIMER M

Consumption ranges from 250 to maximum 350 g/m<sup>2</sup>.

## Packaging and storage

6 Kg and 30 Kg A + B packages.

If stored in its original and sealed package, the products remains unaltered for a year if kept in a closed and protected environment with a temperature between 10 and 30 °C.

## **Cleaning of tools and health precautions**

To clean tools use solvents such as acetone or methyl-ethylketone.

Epoxy resins and hardening agents may cause irritations: please avoid any contact with the skin and especially with the eyes and ensure proper ventilation during use.

Wear gloves, protective suit, goggles or protective visor. People who have to work with epoxy resins for long periods are advised to use protective creams.

In case of contact with the skin, immediately clean with a cloth soaked in denatured alcohol and wash with water or neutral soap or handwash paste. Then use a nourishing cream.

In case of contact with eyes or mucosa, do not use alcohol. Rinse immediately with running water and neutral soap for 10/15 minutes, then seek medical advice.

**Do not rinse skin with solvents.**



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