



# RESICOL 115

## SOLVENT-FREE EPOXY PRIMER, AND COLD SHUT CASTING

Slightly thixotropic adhesive primer, based on solvent-free epoxy resins, hardened with modified amidic polymers, added with mineral fillers and thixotropic agents.

### Areas of use

- Rigid structural bonding of different building materials, such as concrete, iron, steel, wood, brick, stone, marble, tuff, glass;
- Smoothing and sealing the pores of concrete walls;
- Primer for epoxy mortars: RESIMALTA 204, 205, 210, 220 and 250;
- Adhesive and primer for rounded skirting boards built with RESIMALTA 205/250;
- Impregnation for bonding fabrics and fibers in structural reinforcement with composite materials (carbon fibers, glass, aramid);
- Impregnation of non-woven glass fiber fabric to create laminated coatings in tanks for which high chemical resistance protection is required.

### Features

RESICOL 115 is a fluid product, slightly viscous, with a thixotropic behavior up to 1,5 – 2,0 mm thick, able to adhere perfectly to all building materials because it hardens without shrinkage.

It achieves high mechanical properties and guarantees:

- Excellent adhesion on dry and wet concrete, on brick, stone, steel;
- Excellent dielectric properties (low electrical conductivity);
- Excellent resistance to aggressive chemical reagents (acids and bases) and good resistance to solvents;
- Ease of use thanks to pre-dosed packaging.

It can be applied with spatula, brush, roller or spray.

## How to use

---

### Preparation of the support

Sandblast, hammer, abrade the support to remove friable parts, traces of release oils, grease, paints, cement latex, remove dust with pressurized air and vacuum.

The concrete may be damp but must not be saturated, have water stagnation, rising damp (negative pressure) and must in any case be fully cured (28 days).

Application to metals requires careful preparation of the substrate: remove oils, greases, paints and rust by abrasive or blasting with white metal (grade SA 2 - SA 3).

### Product preparation

Pour component B into component A according to the weight ratio indicated on the packages.

Mix for 3' - 5' at low speed with a drill fitted with a spiral / propeller so as to incorporate as little air as possible; during this operation, carefully mix the product also on the bottom and on the walls of the package.

### Application

Apply with a spatula, brush, roller or spray as needed.

Before application, check that the temperature of the substrate and the layers already applied is always at least 3 °C higher than the dew point and that this condition remains at least until the film has hardened to avoid condensation. It is a good rule for applying synthetic resin-based coatings to apply the subsequent coats on the primer which is not perfectly polymerized so as to favor the wettability of the film and the chemical adhesion between the layers, it is also advisable to sow a dust with quartz 0,3-0,9 mm on the fresh primer to increase the specific surface and also favor the mechanical grip. If it is impossible to over-apply within 48 hours, it is advisable to proceed as described in the "Preparation of the support" section and then apply the primer again.

### Note

*The packages are pre-dosed in weight: use component A completely and component B. if you want to fractionate the package, the products must be weighed respecting the ratio A + B indicated on the label and not dosed in volume.*

*Three fundamental rules apply to all two-component systems: weigh well, thoroughly mix the bottom and walls, respect the times of use.*

*Use as a casting joint is only valid for epoxy resin mortars.*

## Technical characteristics

<b>Compression strength</b>	UNI EN 12190	> 60 N/mm <sup>2</sup>
<b>Flexural strength *</b>	UNI EN 12190	> 30 N/mm <sup>2</sup>
<b>Compressive elastic modulus</b>	UNI EN 13412	~ 4500 N/mm <sup>2</sup>
<b>Adhesion to dry concrete</b>	UNI EN 12636	> 2,0 N/mm <sup>2</sup>
<b>Adhesion to steel</b>	UNI EN 12188	
<b>Angle 50°</b>		78 N/mm <sup>2</sup>
<b>Angle 60°</b>		89 N/mm <sup>2</sup>
<b>Angle 70°</b>		106 N/mm <sup>2</sup>
<b>Linear shrinkage</b>	UNI EN 12617-1	≤ 0,1 %
<b>Linear thermal expansion</b>	UNI EN 1770	≤ 100·10 <sup>-6</sup> °C <sup>-1</sup>
<b>Viscosity</b>		~ 2700 cP
<b>Density</b>		1,2 kg/dm <sup>3</sup>
<b>Mixture ratio (A + B)</b>		100 + 33

*Values achieved after 7 days cure at 25 °C.*

## Use and hardening times

By pouring B component into A component, the hardening reaction starts: following mixture the time available is limited and it depends on the temperature.

Temperature [°C]	Pot-life [min.]	Hardening [h]
10	100	10
20	25	4
30	15	2,5
40	10	1,5

*Do not apply at temperatures above 35 °C, avoiding direct exposure to sunlight, below 5 °C, in the event of imminent danger of rain or frost, in conditions of strong fog or with U.R. greater than 70%.*

In the case of applications at low temperatures it is advisable to store the packages of material for at least 24 hours at about 20 ÷ 25 ° C before application.

## Consumption

It varies from 0,3 to 0,8 kg/m<sup>2</sup> depending on the porosity of the support.  
To impregnate fabrics and fibers, consumption ranges from 0,8 to 1,2 kg/m<sup>2</sup>.

## Packaging and storage

Available in packages (component A + B) of 1 and 4 kg.  
In original and closed packages, the product remains unchanged for at least one year if it is kept in an environment with a temperature between 10 and 30 °C.

## Cleaning of tools and health precautions

---

Before handling, always consult the product safety data sheet.

To clean tools use solvents such as RESISOLV 111, RESISOLV 196 or alcohol.

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 with solvents.**



*The information supplied in this sheet is the result of the best practical and laboratory experiences of RESIMIX, which guarantees its products when used according to the instructions supplied. It is nonetheless up to the customer to ensure the product is suitable for the intended use. The manufacturer declines any responsibility for incorrect use or uses beyond his control. RESIMIX reserves the right to make changes to the data. For any request, please contact the RESIMIX Technical Assistance Office.*