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RESIN RI 301

RI 303

PURE, FLUID, SOLVENT-FREE EPOXY RESINS

RI 301

Light straw yellow, fluid, solvent-free, reaction product between bis-phenol-A and epi-chlorohydrin modified with reactive thinner.

RI 303

Light straw yellow, fluid, solvent-free, reaction product between bis-phenol-A/F and epi-chlorohydrin modified with reactive thinner.

Areas of use

RI 301

- Synthetic concrete screed binding agents;
- Binding agents for multi-layered floors with ceramic quartz finishing;
- Impregnation or pressure injection structural strengthening;
- Structural gluing injections of cracks and clefts in building materials;
- Injection gluing of marble, ceramic and wooden floors in case of foundation ungluing which may cause voids.

RI 303

It is used to achieve 0.5 to 3 mm thick transparent coatings of horizontal surfaces, e.g. floors and tables. It is possible to incorporate any object and cover paper or fabric drawings and pictures on the floor.

RESIN RI 301

Technical characteristics

Epoxy equivalent weight	ASTM D-1652	182 – 188 g/eq
Colour (Gardner)	ASTM D-1544	3
Viscosity at 25 °C	ISO 9371	500 – 700 cP
Flash point	ISO 2719	135 °C
Density at 25 °C	ISO 1675	1.14 kg/dm ³
A+B mixture ratio with	HP 150	100 + 45
	HP 157	100 + 60
	HI 362	100 + 25
	H 22	100 + 50
	H 45	100 + 60
	H 92	100 + 30

Use and hardening times

The reaction between the two components starts immediately after mixture: processing time is therefore limited and depends on the temperature. The table shows RI 301 times at 20 °C together with different types of hardening agents.

Resin + hardening agent	Pot life at + 20 °C
RI 301 + HP 150	35' – 40'
RI 301 + HP 157	50' – 55'
RI 301 + HI 362	35' – 40'
RI 301 + H 22	30' – 35'
RI 301 + H 45	55' – 60'
RI 301 + H 92	5'

Minimum hardening temperature = + 10 °C.

At 20 °C the product hardens in 8 hours; complete hardening occurs after 7 days.

RESIN RI 303

Technical characteristics

Epoxy equivalent weight	ASTM D-1652	165 – 175 g/eq
Colour (Gardner)	ASTM D-1544	1
Viscosity at 25 °C	ISO 9371	1000 - 1300 cP
Flash point	ISO 2719	135 °C
Density at 25 °C	ISO 1675	1.15 kg/dm ³
A+B mixture ratio with HP 158		100 + 60

Note

It's possible to make RI 303 react with different types of amino hardening agents: we recommend HP 158 to achieve a transparent coating.

Use and hardening times with HP 158 hardening agent

The reaction between the two components starts immediately after mixture: processing time is therefore limited and depends on the temperature.

temperature	Pot life
10 °C	55 – 60 min
20 °C	40 – 45 min
30 °C	25 – 30 min

Minimum hardening temperature: 10°C .

At 20 °C the product hardens in 8 hours; complete hardening occurs after 7 days.

How to use

Pour the hardening agent in the resin and blend at slow speed for 3' – 5' using drill with helix/spiral to reduce air inlet as much as possible; during this operation, scrape also the bottom and the sides of the container. Three essential rules are valid for all bi-component systems: weigh well, carefully mix bottom and walls, observe times of use.

Packaging and storage

RI 301 is available in 1 kg – 5 kg – 10 kg – 20 kg packages

RI 303 is available in 5 kg – 10 kg – 20 kg packages

The product remains unaltered for at least a year if stored in a place at a temperature between +10°C and +30°C in its original sealed containers.

Cleaning of tools and health precautions

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.