

resiGRP



resiGRP is an epoxy resin system based on two components for the corrosion-resistant coating of structures by spraying, brushing or troweling.

Fields of application are the manhole connection of pipes, the lining in the GRP process of manholes etc. in sewage structures.

Product features:

- high mechanical strength in the cured state
- high chemical resistance, e.g. to biogenic sulphuric acid
- very good adhesion to almost all moist and dry substrates
- easy processing

Processing information:

Surface preparation: The substrate must be clean and free of loose material, dust, oil, grease and substances that could interfere with adhesion. It can be dry or moist. The substrate must be loadbearing and must have the generally requested tear strength of 1,5 N/mm².

Mixing: resiGRP resin and hardener are supplied in quantity-matched canisters. Both components must be mixed homogeneously with each other using slow-running mechanical stirring equipment (minimum mixing time two minutes). Complete emptying of the containers is essential to maintain the mixing ratio and is necessary for ecological reasons.

Processing: Usually resiGRP is applied manually to the substrate by roller. Afterwards, a GRP scrim (ECR glass fibre mat) is applied to the material, coated again with resiGRP and then de-aerated using a grooved roller. A "wet-on-wet" lamination process is recommended. The consumption for a 450 gr/m² GRP mat is approx. 1 kg of the epoxy resin mixture. A layer thickness of 3 to 4 mm is sufficient for common structures (3-layer laminate).

Special notes: Contact with UV radiation can lead to colour changes. This normally does not affect the usability.

Safety instructions: Please observe the hazard information and safety advice on the labels and safety data sheets!

Technical characteristics of **resiGRP**

Base	Epoxy resin
Colour	yellowish-brownish
Number of components	2
Mixing ratio	resin : hardener - with hardener RE38 = 2 : 1 with hardener RE60 = 2 : 1 with hardener RE80 = 5 : 1
Specific weight (mixture)	≈ 1,1 g/cm ³
Pot life (at 20 °C)	with hardener RE38: approx. 25 minutes with hardener RE60: approx. 35 minutes with hardener RE80: approx. 45 minutes
Curing time (at 10 °C)	with hardener RE38: approx. 2,5 hours with hardener RE60: approx. 4 - 5 hours with hardener RE80: approx. 10 hours
Cleaning	with resiClean SURFACE (degreasing of the substrate) with resiClean TOOLS (uncured epoxy resin) with resiClean EPOXYKILLER (cured epoxy resin)
Consumption	as required
Complete chemical resistance	after 7 days
Operating conditions	ideal material temperature for mixing: 20°C application temperature 5 to 35 °C
Storage	store dry, frost-free and not above 35 °C, protect from direct sunlight
Shelf life	6 months if the conditions mentioned above are fulfilled, after this period an increasing of the viscosity is possible.
Disposal	Fully cured residues (mixture) may be disposed as „plastic parts“.

If not mentioned separately, indicated figures are valid at a temperature of 20°C and a relative humidity of 50 %.

Note: All details provided in this datasheet are based on our experiences and are true to the best of our knowledge but without engagement. The given values are to be regarded as a guideline as they depend on the local circumstances and the conditions on site. Recommendations differing from our data sheets are only mandatory if confirmed by us in written form.