

# resiShield



**resiShield** is a two-component epoxy resin system for corrosion-resistant coating of structures by spray, brush or trowel application.

**Field of application** is the coating of pump shafts in sewage networks, sewage shafts, retention basins, rainwater overflows, clarification basins, light liquid separators, grease separators, etc.

## Product features:

- high mechanical strength in the cured state
- high chemical resistance
- high resistance to biogenic sulphuric acid
- high resistance to biodiesel
- very good adhesion to moist and dry mineral substrates

## 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/mm<sup>2</sup>.

**Mixing:** resiShield resin and hardener are supplied in tin buckets or canisters with matching quantities. Both components must be mixed homogeneously using slow-running mechanical stirring equipment (minimum mixing time four minutes!). Complete emptying of the containers is essential to maintain the mixing ratio and is necessary for ecological reasons.

**Application:** Depending on the viscosity, resiShield is usually applied manually by tassel or brush/roller. (resiShield LV) or spatula (resiShield HV) onto the substrate. If a coordinated technique is used, application by spraying is also possible (resiShield MV). The material should be applied until a layer thickness of at least 3 mm is achieved. If a greater layer thickness is desired, resiShield is applied in several steps using the wet-on-wet method.

**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 **resiShield**

Base	Epoxy resin
Colour	green
Number of components	2
Mixing ratio	resin : hardener : with hardener RE60 = 4:1 (weight) with hardener RE80 = 5:1 (weight)
Specific weight (mixture)	≈ 1,4 g/cm <sup>3</sup>
Pot life (at 20 °C)	with hardener RE60: approx. 25 minutes with hardener RE80: approx. 35 minutes
Curing time (at 10 °C)	with hardener RE60: approx. 4 - 5 hours with hardener RE80: approx. 8 hours
Chemical resistance	pH2 to pH12
Cleaning	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.