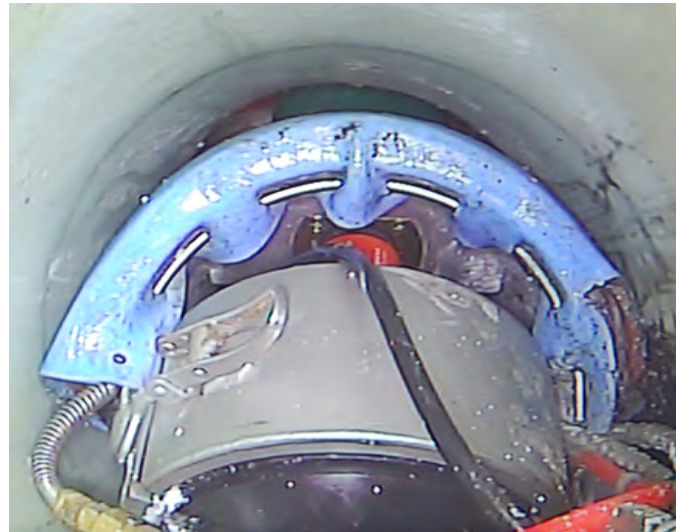


# Harz<sup>4</sup>



**Harz4** is two-component epoxy resin system for grouting side inlets.

**Field of application** is the robot-supported renovation of nozzles and pipe inlets in casing technology (ProKASRO robot).

## Product features:

- High chemical resistance, e.g. to biogenic sulphuric acid
- high mechanical resistance (e.g. to abrasion)
- very good adhesion to moist and dry substrates
- physiologically harmless after curing

## 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:** Harz4 resin and hardener are supplied in quantitatively matched containers. When delivered in buckets, both components must be mixed homogeneously with each other for at least four minutes using slow-running mechanical stirrers (e.g. Collomix) in a ratio of 3:1 (resin:hardener). or in proportioning transparent bags until a homogeneous colouring occurs (approx. 4 to 5 minutes). Complete emptying of the containers is essential to maintain the mixing ratio and is necessary for ecological reasons. When supplied in tubular bags, components in a ratio of 3:1 (resin:hardener) must be completely mixed with each other using a 4C paste mixing unit via static mixers.

**Processing:** Harz4 is usually processed with ProKASRO injection systems. The processing is done in the manner required by the plant. The moulding time is approx. 45 minutes at a heating temperature of 60°C after commissioning of the formwork and bubble heating.

**Special notes:** Contact with UV radiation can lead to colour changes. This does not affect the suitability for use.

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

# Technical characteristics of Harz<sup>4</sup>

Base	Epoxy resin
Colour	grey
Number of components	2
Mixing ratio	resin : hardener = 3 : 1 (weight)
Specific weight (mixture)	≈ 1,6 g/cm <sup>3</sup>
Pot life (at 20 °C)	pH2 to pH12
Curing time (at 10 °C)	approx. 25 minutes
Chemical resistance	approx. 45 minutes
Cleaning	with resiClean TOOLS (uncured epoxy resin) with resiClean EPOXYKILLER (cured epoxy resin)
Consumption	with medium cartridge size: 2 cartridges x 1.8 kg per cartridge
Complete chemical resistance	after 7 days
Operating conditions	ideal material temperature for mixing 20 °C Application temperature 5 to 35 °C
Storage	dry, frost-free and not above 35 °C, protect from direct sunlight
Shelf life	under the above conditions up to 6 months; thereafter separations and viscosity increases possible
Disposal	Cured resin residues (mixture) can be disposed of as plastic (waste code number 120105).

Unless otherwise stated, these data apply to a temperature of 20°C and a relative humidity of 50%.

**Note:** The information in this data sheet has been provided on the basis of our experience to the best of our knowledge, but is not binding. Use outdoors or on the construction site may cause a shift in the characteristic values. Recommendations that deviate from the information in our data sheets are only binding for us if they have been confirmed by us in writing.