

## Technical Data Sheet

### Easy Pox 4514

- Epoxy resin based sewer repair material
- Pot life approx. 45 minutes at 20 °C

#### PRODUCT DESCRIPTION

##### Application / Properties

Easy Pox 4514 is a solvent free, unfilled and pigmented epoxy resin based dual-component reaction plastic. The product is used for renovation of damaged waste water pipes preferentially by use of felt liners or glass liners with variable wall thicknesses. The application of Easy Pox 4514 within house connection areas is preferred.

Easy Pox 4514 may be used at temperatures starting at 5 °C and cures tack-free even at lower temperatures. To obtain end use properties needed for successful sewer renovation (for example glass transition temperature) the liner system has to be post cured afterwards with hot water or water steam. Optimal crosslinking is achieved by a warm post curing process above 60 °C.

Easy Pox 4514 features high capillary activity. Penetration and impregnation properties are excellent. Therefore high strength of the liner is obtained.

After complete curing Easy Pox 4514 is physiologically harmless.

Compatibility of the resin with commercially available types of liners is usually given. Additionally we do recommend to carry out performance tests in advance.

By optimizing the system high migration and chemical resistance could be obtained.

In its completely cured state Easy Pox 4514 is resistant to water, seawater and sewage water. It is also resistant to many lye solutions, diluted acids, salt solutions, mineral oils, lubricants, fuels and many solvents (discoloration is possible).

##### Color / Package item / Shelf life

**Color:**

Light grey

**Package item:**

30 kg; other units on request

**Shelf life:**

12 months after production date

Storage in original sealed units

Dry, cool and free of frost

#### TECHNICAL DATA

Density at 23 °C / 50 % rel. hum. of air:	Component A:	approx. 1.17 g/cm <sup>3</sup>
	Component B:	approx. 1.02 g/cm <sup>3</sup>
	Mixture:	approx. 1.14 g/cm <sup>3</sup>

Solids content: 100 %

Viscosity (25 °C, V03.4):

Component A: 1600 - 2400 mPas

Component B: < 100 mPas

## APPLICATION

### Mixing ratio:

4 : 1 (by weight)

3.40 : 1 (by volume)

### Material consumption:

Depending on liner material and thickness

### Processing time (at 50 % rel. hum. of air):

20 minutes (30 °C)

45 minutes (20 °C)

75 minutes (10 °C)

### Tack free cure:

> 19 minutes (60 °C, measured at the outside of the tube)

### Application/Mixing:

Pour the curing agent completely into the main component. Mix intensively with a slow rotating stirrer (recommendation: double stirrer with shafts that rotate in opposite directions). Pour into a different vessel and mix there intensively again to avoid bad spots. Before applying onto the substrate a homogeneous mass, free of streaks has to be achieved.

During the impregnation process and possible transport proper cooling has to be ensured to avoid dramatic decrease of pot life by an uncontrolled increase of temperature.

## SAFETY INFORMATION

Only for professional users.

For safe handling of epoxy resins and their curing agents we do recommend attention to the following leaflets as a matter of principle:

**Leaflet BG-Regel BGR 227**, Handling of Epoxy resins. (Ed.: Berufsgenossenschaft der Chemischen Industrie).

Furthermore the relevant physical, safety-related, toxicological and ecological data have to be taken from the specific material safety data sheets.

### Disposal:

Completely cured material may be disposed via domestic waste.

Hand residual emptied units over to Recycling.

Liquid material has to be disposed of as paint waste which contains solvents or other dangerous substances.

### Data base:

The determination of all the data and application information is based in laboratory tests. Measured values in practice may differ because of influences beyond our control.

### Legal foundation:

The following specifications as well as the recommendations for handling and use of our products are based upon our knowledge and experience under normal conditions, at proper storing and application. Because of different materials, substrates and working conditions other than given normal values, a warranty of a working result or a liability - for whatever legal relationship - cannot be justified from these instructions or a verbal guidance respectively, unless intent or gross fault can be imputed to us. Here, the user has to prove that he had transferred in written form, in time and completely every knowledge that is necessary for an appropriate and promising estimation. The user is obliged to test the products on their suitability for the intended purpose. Incidentally our respective terms and conditions of business are valid. You get these on [www.ist-web.com](http://www.ist-web.com). Only the newest edition of this technical data sheet is valid.