

General product information

Semi-rigid two component polyurethane slot *filler material* with good mechanical properties and low pouring viscosity. **SL PUR-Slot Filler** is designed as slot filler material for our PUR Traffic Sensors™ in asphalt roads.

The **SL PUR-Slot Filler** does not contain any halogen- or heavy metal components. It complies with the **RoHS** (2002/95/EG) and electronic waste regulation **WEEE** (2002/96/EG directive of the EU).

Typical properties at 25 °C

	Polyol SL PUR Slot Filler POL	Polyisocyanate SL PUR Slot Filler- ISO	Mixture
Density [g/cm ³] DIN 53217/2	1.56	1.22	1.49
Viscosity [mPa·s] DIN 53018/1+2	3000	250	1200
Mixing ratio by weight	100	20	-

Colour: basalt grey

Pot life: round about 15 - 20 minutes at 20°C

Curing profile

Curing time depends on the pot life, material temperature and ambient temperatures. The ambient temperature should not fall below +5°C during curing.

Typical physical and electrical properties of tempered casting resin

(16 hours at 80°C)

Shore hardness	75 D	DIN EN ISO 868
Tensile strength	25 N/mm ²	DIN 53455
Flexural strength	33 N/mm ²	DIN 53452
Coefficient of linear expansion	48 10 ⁻⁶ K ⁻¹	DIN 53752
Insulation class	B (130°C)	IEC 85
Heat conductivity	0,55 W/Km	DIN 52612

Dielectric strength	28 kV/mm	IEC 243
Surface resistance	$10^{14} \Omega$	IEC 93
Volume resistance at 20 °C	$10^{14} \Omega \text{ cm}$	IEC 93
Electrolytic corrosion	A / 1.2	VDE 0307
Tracking resistance	CTI > 600 V	IEC 112

Dielectric properties at 50 Hz (IEC 250)

Temperature	Dissipation factor	Dielectric constant
23 °C	$\tan \delta = 0,046$	$\epsilon_r = 5,5$
50 °C	$\tan \delta = 0,086$	$\epsilon_r = 6,2$
80 °C	$\tan \delta = 0,119$	$\epsilon_r = 6,7$

Processing Conditions

The resin component should be stirred well before using. The processing is done by preference with a two component metering and mixing machine. These machines enable a working with short potlives. The parts to be glued should be clean, dry and free from grease.

Precaution

Material safety data sheets SL PUR Slot Filler should be read very carefully before use.

Packaging

6 Kg units (5 kg POL+1 kg ISO). Others size on request.

Storage life

Both components must be protected against humidity. Do not store at temperature below + 5 °C. 15 - 20 °C is the most favourable storage temperature. Original closed units can be stored for at least 6 months at ambient temperature. After a long storage period, the resin component should be stirred well before using.

Important notes:

Our advice in connection to technical applications either verbal, written or by means of experiments are given in good faith and to the best of our knowledge as an indication without obligation also in respect of third party protection. This does not dismiss the users obligation to check that the supplied product is suitable for the desired purpose and that the necessary precautionary measures have been taken. Application, use and processing of our products take place outside our control possibilities. They are therefore the responsibility of the end user. We kindly refer you to our standard sales conditions. As our data sheets are regularly updated, please check your files to confirm you have the current edition. It is sometimes useful to perform application tests or to develop special variations for certain projects.

For more specific information please contact our Technical Department.

Sensor Line - Gesellschaft für optoelektronische Sensoren mbH
 Carl-Poellath Straße 19, D-86529 Schrobenhausen, Germany
 Tel.: +49 (0) 8252 / 8943-0, Fax: +49 (0) 8252 / 8943-11