

## Product Data Sheet

### ISO-FILL A2 (g)

#### Description:

ISO-FILL A2 (g) is a non toxic 2-component sealing compound. The resin and hardener are based upon hydrocarbon-resins. ISO-FILL A2 (g) is not classified according to German and EC regulations.

The compound is designed for the use in underground cable boxes.

ISO-FILL A2 (g) cures chemically into an elastomer. It shows good adhesion to metal, ceramics and many plastics. The material shows good heat conductivity and won't get brittle. For maintenance purposes, the resin can be removed with a knife.

#### Technical Data:

|          |                                              |                                                                   |
|----------|----------------------------------------------|-------------------------------------------------------------------|
| resin    | viscosity /<br>20°C colour<br>density / 20°C | app. 10000 mPa s<br><br>light green*<br>1.5 g/cm <sup>3</sup>     |
| hardener | viscosity /<br>20°C colour<br>density / 20°C | app. 1000 - 2000 mPa s<br><br>clear<br><br>1.15 g/cm <sup>3</sup> |

\* or on request

**Continuation Technical Data ISO-FILL A2 (g):**

|         |                                            |                       |
|---------|--------------------------------------------|-----------------------|
| mixture | mixing ratio                               |                       |
|         | resin :                                    | 11 : 1 pbw* app.      |
|         | hardener                                   | 7000 mPa s            |
|         | viscosity /                                | light green*          |
|         | 20°C colour                                | 1.5 g/cm <sup>3</sup> |
|         | density / 20°C                             | app. 15 min *         |
|         | potlife / 20°C                             | app. 20 min *         |
|         | geltime / 20°C                             | 40°C                  |
|         | max. temperature<br>(200 g, start at 20°C) |                       |

\* or on request

**Properties of cured product (typical values):**

|                                                                                                             |                                        |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------|
| mixing ratio resin : hardener                                                                               | 11 : 1 pbw                             |
| hardness                                                                                                    | 50 - 55 Shore A /<br>10 Shore D        |
| temperature resistance                                                                                      | long-time: 120°C short-<br>time: 140°C |
| tensile strength                                                                                            | 5 N/mm <sup>2</sup>                    |
| elongation at break                                                                                         | 150 %                                  |
| dielectric strength                                                                                         | > 15 kV/mm                             |
| dielectric strength while still liquid                                                                      | 5 kV/mm                                |
| dissipation factor tan $\delta$ /<br>25°C / 50Hz                                                            | < 0.01                                 |
| dielectric constant $\epsilon$ / 25°C / 50Hz                                                                | ca. 3                                  |
| thermal conductivity                                                                                        | 0,5 W/K m                              |
| thermal volume expansion coefficient                                                                        | 230 * 10 <sup>-6</sup> K <sup>-1</sup> |
| tracing resistance                                                                                          | KA 3c                                  |
| water absorption after 30 days / 23°C                                                                       | 0.5 %                                  |
| chemical resistance against mineral<br>oil, 2n H <sub>2</sub> SO <sub>4</sub> , CaCO <sub>3</sub> -solution | no visible degradation                 |

**Storage:**

Store dry and well closed.

**Processing:**

Stir up resin compound well. Then mix resin and hardener carefully in recommended ratio for 3 minutes. The mixture has to be poured into the mould immediately after mixing. Air bubbles that have been stirred in can be removed before end of potlife by evacuating or by using hot air.

Please see material safety data sheet for additional information.