

## Product Data Sheet

### ISO-FILL BRH

#### Description:

ISO-FILL BRH is a reenterable cold curing 2-component nonurethane encapsulating gel. Unlike other pouring compounds, ISO-FILL BRH is free of isocyanates, epoxides, and silicones. It is not classified according to German and EC regulations.

The resin is suitable in telecommunication applications to avoid damages by moisture, 1 kV power cable-boxes, and for the sealing of many other electronic parts, especially where no mechanical stress is allowed (even at very low temperature).

ISO-FILL BRH has a medium viscosity while pouring. The cured product shows good adhesion to metals, minerals and many plastics. The hydrophobic behaviour is excellent.

#### Technical Data:

|          |                                  |                        |
|----------|----------------------------------|------------------------|
| resin    | viscosity / 20°C                 | app. 7500 mPa s        |
|          | colour                           | olive green            |
|          | density / 20°C                   | 1.48 g/cm <sup>3</sup> |
| hardener | viscosity / 20°C                 | App. 6000 mPa s        |
|          | colour                           | yellow                 |
|          | density / 20°C                   | 0.95 g/cm <sup>3</sup> |
| mixture  | mixing ratio<br>resin : hardener | 3.9 : 1 pbw            |
|          | viscosity / 20°C                 | app. 6500 mPa s        |
|          | colour                           | olive green            |
|          | density / 20°C                   | 1.36 g/cm <sup>3</sup> |
|          | potlife / 23°C                   | app. 15 min            |
|          | gelttime / 23°C                  | app. 25 min            |
|          |                                  |                        |

## Continuation Technical Data ISO-FILL BRH

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

|  |                               |
|--|-------------------------------|
| mixing ratio resin : hardener  | 3.9 : 1 pbw                   |
| temperature resistance   | 120°C                         |
| glass transition temperature   | < -60 °C                      |
| hardness   | 15 – 20 Shore A               |
| tensile strength   | 0.9 N/mm <sup>2</sup> at 20°C |
| elongation   | 200 %                         |
| dielectric strength  | > 10 kV/mm                    |
| dielectric strength while still liquid   | > 5 kV/mm                     |
| water absorption (ASTM D570)   | 0.04% gain                    |
| chemical resistance against mineral 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 1 - 3 minutes (depending on size of mixture and potlife). 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.