

Energy cost-saving silicone foam sealants

Sonderhoff Chemicals has developed two new types of addition-crosslinking silicone foam sealants, Fermasil 91 and 93, which satisfy the high impermeability requirements of the industry, especially the sectors of automobile construction, electronics, and lighting. They harden at room temperature and are dry-to-touch after just 10?–?12 min.

Therefore, they do not need an annealing furnace to cure and can help saving energy costs and additional production stages. The Fermasil 91 silicone foam system with a lower viscosity of up to 25,000 mPa?s has been developed for groove applications and the Fermasil 93 thixotropic system with a viscosity of 80?–?130,000 mPa?s for applications on even or inclined surfaces. The application process takes place with a two-component low-pressure mixing and dosing system from Sonderhoff Engineering. Fermasil 93 has a compression set of < 15 %, while it is just < 10 % for Fermasil 91. The silicone foam sealings can be used at temperatures from – 50 °C to 180 °C, and even up to 350 °C in the short term. The mechanical and chemical properties of the sealings are also maintained under these extreme operating conditions, says Sonderhoff.

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