TECHNICAL DATA SHEET



SilSo Print 21001 2 part, addition curing silicone elastomer for Pad Printing applications.

Besonption
Pourable, addition-curing, 2-part silicone rubber that cures at room temperature. This product is mainly used for making silicone printing pads. The cured rubber exhibits excellent physical and electrical properties. Fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat.

Key Features

Description

- The product can be diluted by adding silicone oil (50 300 mPas), which reduces the viscosity and hardness of the
- Very good flow and detail reproduction properties due to low viscosity.
- very good mechanical properties, even diluted.
- Ink resistance.

Use and Cure Information

Components A and B are mixed at a mass ratio of 1:1. The two components are thoroughly mixed either by hand or with an electric or pneumatic stirrer at low speed to avoid air from being dragged in and/or to avoid a temperature increase. Crosslinking is slowed down by reducing the temperature and accelerated by increasing it. The non-tacky time is about 8 – 12 hours.

Inhibition of cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding

clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

Test Method Property Value **Uncured Product** Appearance brick-red Color A white Addition Cure Type De-mould Time / Full Cure at 12 hrs 23°C/73°F Density A DIN 53 479 1.1 Density B DIN 53 479 1.1 Mix Ratio By Weight 1:1 Pot Life mins at 23°C/73°F 30 mins 12000 cP **Brookfield HBTD** Viscosity A Viscosity B **Brookfield HBTD** 8000 cP Viscosity Mixed **Brookfield HBTD** 10000 cP **Cured Product** DIN 53479 Density 1.1 g/cm3 DIN 53 504, S 3 A 600 % Elongation at Break DIN 53 505 Hardness Shore A 30 Linear Shrinkage (%) < 0.1 % 200 °C / 392 °F Max Working Temp Min Working Temp -50 °C / -58 °F Tear Resistance (N/mm) ASTM D 624, Die B 30 N/mm / 171 ppi Tensile Strength DIN 53 504, S 3 A 7 N/mm2 / 1015 psi

Max Storage Temperature 30 °C °C / 86 °F Shelf Life 12 mths

These substances may impair or even completely prevent the curing behavior of addition crosslinking silicones typically indicated by tacky surfaces. Therefore, it is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Storage

Health & Safety

Please observe our safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

Delivery Units

Component A: 5 kg or 25 kg Component B: 5 kg or 25 kg

Other container sizes upon demand.

Storage

Components A and B can be optimally processed for approx. 12 months if stored properly at temperatures below 30 °C and protected from frost in closed original containers.

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