

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

Description	Property	Test Method	Value
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.	Uncured Product		
Key Features	Appearance		brick-red
<ul style="list-style-type: none"> The product can be diluted by adding silicone oil (50 - 300 mPas), which reduces the viscosity and hardness of the material. Very good flow and detail reproduction properties due to low viscosity. Very good mechanical properties, even diluted. Ink resistance. 	Color A		white
Use and Cure Information	Cure Type		Addition
Mixing	De-mould Time / Full Cure at 23°C/73°F		12 hrs
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.	Density A	DIN 53 479	1.1
Inhibition of cure	Density B	DIN 53 479	1.1
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.	Mix Ratio By Weight		1:1
Health & Safety	Pot Life mins at 23°C/73°F		30 mins
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.	Viscosity A	Brookfield HBTD	12000 cP
Delivery Units	Viscosity B	Brookfield HBTD	8000 cP
Component A: 5 kg or 25 kg	Viscosity Mixed	Brookfield HBTD	10000 cP
Component B: 5 kg or 25 kg	Cured Product		
Other container sizes upon demand.	Density	DIN 53479	1.1 g/cm3
Storage	Elongation at Break	DIN 53 504, S 3 A	600 %
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.	Hardness Shore A	DIN 53 505	30
	Linear Shrinkage (%)		< 0.1 %
	Max Working Temp		200 °C / 392 °F
	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
	Storage		
	Max Storage Temperature		30 °C °C / 86 °F
	Shelf Life		12 mths

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