

## SG C-SIL 20/30

### Technical Data Sheet

#### 1. DESCRIPTION AND MAIN FEATURES

SG C - Sil is an poly-condensation, tin cured, RTV 2 silicon rubber that vulcanizes at room temperature. The C silicones are low viscosity, medium Shore A hardness (20 and 30) and high tear strength.

#### 2. MAIN APPLICATION SECTORS

Industrial (realization of silicone mould / duplications / restorative). The product stays in contact with non – aggressive materials

#### 3. DOSAGE AND MIXING

The product is composed by a BASE component (white COLOUR) and a CATALYST component (transparent COLOUR). Mix energetically the mass (mixing ratio see technical) till to obtain an homogeneous colour. The hardening happens in approximately 24 hours. After 24 hours the product is hardened.

##### 3.1 INSTRUCTION FOR USE

The percent of catalyst to mix depends on the catalyst. The exact proportion must be respected to obtain the correct hardening of the product. Take both components and shake / stirr before use to homogenize each component prior mixing. Base comp. is White and the Catalyst coloured transparent. The mix ration must be respected in order to ensure the final characteristics of the silicone product. The mix ratio is 100 : 5 or 100: 3-5 by fast curing agent. This means 1 kg base needs 50 gram catalyst (30-50 grams of fast curing). DO NOT exceed the recommended ratio for the curing agent.

Mix energetically untill you have a blended white homogeneous white color. Once both components mixed well, it is ready for casting. We recommend pouring the silicone from 30 cm into the mould.

The mould can be demoulded after 18-24 hours but will be complete hardneing in 72 hours. The working time and curing time based on standard RTV temperature of 23°C. The setting time starts when both components starts mixing.

The working time and setting time are reduced if the temperature exceeds 23°C (e.g. if the temperature is 40°C, the working time and setting time are approximately cut in half). If the temperature is less than 23°C, the working time and setting time increase considerably. Cured silicone properties are guaranteed within temperatures ranging from a minimum temperature of - 40 °C to a maximum temperature of +200°C.

#### 4. CHEMICAL AND PHYSICAL CHARACTERISTICS

Properties	SG C-SIL 20	SG C-SIL 30	Fast Curing agent		
Material	White Liquid	White Liquid	Light Blue		
Base Viscosity	25.000 cP	30.000 cP			
Mixing ratio B + C	100 + 5	100 + 5	+ 5 %	+ 4 %	+ 3 %
Density	1.19 g/cc	1.20 g/cc			
Working time (@ 23 °C)*	> 90 minutes	> 90 minutes	> 20 minutes	> 40 minutes	> 60 minutes
Setting Time (@ 23 °C)*	< 24 hours	< 24 hours	< 6hours	< 9 hours	< 12 hours
Hardness after 72h	21± 2 shA	29± 2 shA			
Tear Resistance	18/Nmm	18/Nmm			
Strength Resistance	3/Nmm2	3,5/Nmm2			
Elongation at break	350%	280%			
Tensile strength	2.5 N/mm2 / 360 psi	3.5 N/mm2 / 510 psi			
Dimensional variation	0,1%				

(\*) The working time and setting time depends significantly of the air-humidity.

#### 5. AVAILABLE PACKAGING

Packages: 200 base + 10 kg curing agent / 20kg base+1kg curing agent / 5kg base+ 0,25kg curing agent /

#### 6. IMPORTANT OBSERVATIONS

The advice given verbally, in writing or through demonstrations on the use of the products are based on our knowledge. The use and application of the product by the user lie beyond the control of the company and are therefore the user's own responsibility.

#### 7. SAFETY DATA SHEETS

Before handling the product, read the safety data sheet and make sure to get all the information required for safe use.

#### 8. SHELF LIFE

SG C-Sil is guaranteed for a period of 12 months if conserved correctly between 5° - 27°C (41° - 80°F).

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