# **TECHNICAL DATA SHEET**



# True Skin 20 Two-part Liquid Silicone Elastomer

Description	Property	Test Method	Value
This is a pourable 2-part addition cure silicone elastomer system.	Uncured Product		
After mixing parts 'A' and 'B' in the correct proportions, the	Color A		Translucent white
system will cure at ambient temperatures within 24 hours, but the	Color B		Translucent white
rate of cure can be accelerated by heat. The cured rubber exhibits excellent physical and electrical properties.	Cure Profile		RTV heat accelerated
	Cure Type		Addition
Key Features	De-mould Time / Full Cure at		Addition
<ul><li>Low viscosity</li><li>Translucent for ease of pigmentation</li></ul>	23°C/73°F		6 - 8 hr hrs
<ul> <li>Fransicent for ease of pigmentation</li> <li>Excellent flexibility</li> </ul>	Gel Time at 25°C/77°F		60 min
<ul> <li>Can be diluted with dimethyl fluid with minimal bleed</li> </ul>	Mix Ratio By Weight		1:1
Application			
Special effects, animatronics, prosthetics, skin replication,	Pot Life mins at 23°C/73°F		20 mins
pigmentable	Rheology		Liquid
Use and Cure Information	Specific Gravity A		1.09
IMPORTANT:	Specific Gravity B		1.09
The 'A' part of product	Viscosity A	Brookfield	10,000 cP
contains the platinum catalyst; great care should be taken when	Viscosity B	Brookfield	10,000 cP
using automatic dispensing equipment. Please ensure that it is	<b>•</b> • • • •		
not contaminated by residual hydride containing rubber in the	Cured Product		
dispensing equipment, as curing will result. If in doubt, it's	Color		Translucent
advised to thoroughly purge the equipment with a suitable	Elongation at Break	ISO 37	1000 %
hydrocarbon solvent or silicone fluid.	Hardness Shore A	ASTM D 2240-95	20
Mixing	Linear Shrinkage (%)		<0.1 %
Both the 'A' and 'B' parts should be well stirred to ensure the	Max Working Temp		204 °C / 399 °F
material is uniform and any settlement of the fillers have been	Min Working Temp		-55 °C / -67 °F
remixed. Place the required amount of 'A' and 'B' parts by weight	Tear Resistance (N/mm)	BS ISO 34-1	11 N/mm / 63 ppi
at the mix ratio shown opposite, in a clean plastic or metal container of approximately 3 times their volume, and mix until the	Tensile Strength	ISO 37	3.49 N/mm2 / 506 psi
colour of the mixture is uniform. For best results, we recommend	l'ensile etterigiti	100 07	0.40 N/IIIII2 / 000 poi
degassing. Degas by intermittent evacuation, the larger volume of	Storage		
the mixing vessel helps prevent overflow during this operation. In	Max Storage Temperature		38 °C / 100 °F
case of automatic dispensing with static mixing head, the two	Shelf Life		24 mths
components should be degassed before processing.	0.101 2.10		

components should be degassed before processing. Recommended vacuum conditions are 30-50 mbar intermittently over 5-10 minutes. Cast the mixture either by gravity or pressure injection. In order to achieve optimum performance, the same "A" and "B" side lot number should be used.

### 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.

#### **Curing Conditions**

The data offers a guide to the rate of cure at various temperatures, mixing of the components at temperatures between 15 and 25°C is recommended to ensure adequate pot life for degassing and handling. The pot life can be extended to several hours by chilling the components before mixing.

## Health & Safety

Safety Data Sheets available on request.

#### Packaging

CHT Moulding Rubbers are available in a variety packaging including bulk containers. Please contact our sales department for more information.

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