TECHNICAL DATA SHEET



12 mths

ALPA-SIL 20 FK 2 part Silicone Spray Rubber

| 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 | Appearance | | Translucent |
| system will cure at ambient temperatures within 24 hours, but the | Color A | | Translucent |
| rate of cure can be accelerated by heat. The cured rubber | Cure Type | | Addition |
| exhibits excellent physical and electrical properties. | De-mould Time / Full Cure at | | |
| Key Features | 23°C/73°F | | - hrs |
| The pot life at room temperature is > 1.2 min Demoulding takes > 2 min | Density A | BS ISO 2781 | 1.07 |
| Crosslinking can be accelerated by increasing the | Density B | BS ISO 2781 | 1.05 |
| temperature | Mix Ratio By Weight | 20.00 2.01 | 1:1 |
| Crosslinking is nearly without shrinkage (< 0.1 %) | Pot Life mins at 23°C/73°F | | > 1.2 mins |
| Application | Viscosity A | Brookfield | 5000 cP |
| Spray applications | Viscosity B | Brookfield | 5000 cP |
| Use and Cure Information | Viscosity Mixed | Brookfield | 5000 cP |
| IMPORTANT: | viscosity wixed | DIOOKIIEIU | 5000 CF |
| The 'A' part of product | Cured Product | | |
| contains the platinum catalyst; great care should be taken when | Color | | Translucent |
| using automatic dispensing equipment. Please ensure that it is | Density | BS ISO 2781 | 1.06 g/cm3 |
| not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's | Elongation at Break | ISO 37 | 550 % |
| advised to thoroughly purge the equipment with a suitable | Hardness Shore A | DIN 53 505 | 18 - 20 |
| hydrocarbon solvent or silicone fluid. | Linear Shrinkage (%) | | < 0.1 % |
| Mixing | Tear Resistance (N/mm) | BS ISO 34-1 | 5.5 N/mm / 31 ppi |
| Both the 'A' and 'B' parts should be well stirred to ensure the | Tensile Strength | ISO 37 | 4 N/mm2 / 580 psi |
| material is uniform and any settlement of the fillers have been remixed. Place the required amount of 'A' and 'B' parts by weight | Storage | | |
| at the mix ratio shown opposite, in a clean plastic or metal | Max Storage Temperature | | 30 °C / 86 °F |

degassing. Degas by intermittent evacuation, the larger volume of the mixing vessel helps prevent overflow during this operation. In case of automatic dispensing with static mixing head, the two 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.

Shelf Life

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.

container of approximately 3 times their volume, and mix until the

colour of the mixture is uniform. For best results, we recommend

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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|---------------|-------------|
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CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com

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