

Value

30 °C

VBS26 2 Part Addition cure silicone moulding rubber

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Introduction

This is a pourable 2-part addition cure silicone elastomer system. After mixing parts 'A' and 'B' in the correct proportions, the system will cure at ambient temperatures within 24 hours, but the rate of cure can be accelerated by heat. The cured rubber exhibits excellent physical and electrical properties.

Key Features

- Low viscosity
- 1:1 mix ratio
- Fast cure
- High tear resistance

Use and Cure Information IMPORTANT:

The 'A' part of product

contains the platinum catalyst; great care should be taken when using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.

Mixing

Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform and any settlement of the fillers have been remixed. Place the required amount of 'A' and 'B' parts by weight at the mix ratio shown opposite, in a clean plastic or metal container of approximately 3 times their volume, and mix until the colour of the mixture is uniform. For best results, we recommend 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. Inhibition of Cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing

	Property	Test Method	Value
n.	Uncured product		
m	Appearance		Blue viscous liquid
f	Colour A Part		Translucent
	Colour B Part		Blue
	Mix Ratio		1:1
	Viscosity A-Part mPas	Brookfield	18000 mPas
	Viscosity B-Part mPas	Brookfield	17000 mPas
	Cure Type		Addition
	Max Cure Hrs @ 25C		1 hrs
	Pot Life mins		7 mins
	De-Mould Time Hrs		1 hrs
- 1	Cured product		
ot	After 7 days cure at 23°+/-2	°C and 50+/-5% hu	midity
ed	Colour		Blue
	SG	BS ISO 2781	1.06
	Min Working Temp - C		-50 ºC
	Max Working Temp +C	AFS_1540B	200 ºC
	FDA	CFR (21] 177.2600	No
t	Duro Shore A	ASTM D 2240-95	26
L	Tensile MPa	ISO 37	5 MPa
е	Elongation %	ISO 37	590 %
d	Tear kN/m	BS ISO 34-1	20 kN/m
of n	Modulus Youngs MPa		0.68 MPa
	Linear Shrinkage %		0.1 %
	CTE Volumetric ppm/ C		818 ppm/ºC
' e	CTE Linear ppm/ C		273 ppm/ºC
-	Storage		
	Shelf life		12 mths

Test Mathead

Shelf life Max storage temperature °C

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 following table 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.

Cure time @ 25°C 1 hrs

Cure time @100°C {{max_cure_mins}} mins

Health and Safety

Safety Data Sheets available on request.

Packaging

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

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ACC Silicones Ltd, Amber House, Showground Road, Bridgwater, Somerset, UK

Tel. +44(0)1278 411400 Fax. +44(0)1278 411444

Treco S.R.L., Via Romagna N.8, 20098 Sesto Ulteriano (MI), Italia. Tel. 39/02/9880913 Fax. +39/02/98280413