

VBS26-35

Pourable two part addition cure silicone elastomer

Introduction

VBS26-35 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**
- **Easy 1:1 mix ratio**
- **Fast cure**
- **High tear resistance**

Use and Cure Information

How to Use

IMPORTANT: **VBS26-35** 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.

Mix both the A and B parts gently to ensure homogeneity. Place the required amount of A and B parts by weight at the ration of **1:1** (A to B) in a clean plastic or metal container of approximately 3 times their volume, and mix until the colour of the mixture is uniform.

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.

Curing Conditions

The following table offers a guide to the rate of cure of **VBS26-35** at various temperatures, mixing of the components 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.

Temperature, °C	Max Cure Time	De-mould Time
25	1 hrs	<1

Inhibition of Cure

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

Property	Test Method	Value
Uncured Product		
Colour A Part:		Translucent Blue Light Blue Light Blue viscous liquid
Colour B Part		
Colour Mixed		
Appearance:		
Viscosity A:	Brookfield	18000 mPa.s
Viscosity B:	Brookfield	17000 mPa.s
Pot Life:		7 minutes *
De-mould time		<1 hours *
* measured at 23+/-2°C		

Cured Elastomer

(after 2 days cure at 23+/-2°C)

Tensile Strength:	BS903 Part A2	5.0 MPa
Elongation at Break:	BS903 Part A2	590 %
Youngs Modulus:		0.68MPa
Tear Strength:	BS903 Part A3	20 kN/m
Hardness:	ASTM D 2240-95	26 Shore A
Specific Gravity:	BS 903 Part A1	1.06
Linear Shrinkage:		0.1 %
Coefficient of Thermal Expansion:		
Volumetric		818 ppm / °C
Linear		273 ppm / °C
Min. Service Temperature:		-50°C
Max. Service Temperature:	AFS 1540B	200 °C

All values are typical and should not be accepted as a specification.

Health and Safety - Material Safety Data Sheets available on request.

Packages – **VBS26-35** is supplied in 2x20 kg and 2 x 200 kg bulk containers. Please contact your Regional Sales Manager for alternative packaging.

Storage and Shelf Life – Expected to be **12 months** in original, unopened containers below 30°C.

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