

MM700FG 2-Part moulding putty

Introduction

MM700FG is a Blue 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 1 ½ hours, but the rate of cure can be accelerated by heat. The cured rubber exhibits excellent physical and electrical properties.

Key Features

- **CFR21,177,2600 food approval for fatty and aqueous food**
- **EC 1935/2004 and EU 10/2011 compliant**
- **Putty like consistency**
- **Fast curing**

Food Approvals

MM700FG Yes

Use and Cure Information

How to Use

Measure the required amount of A and B parts by weight at the ratio of 1 :1 (A to B) in a clean plastic or metal container, knead until the colour of the mixture is uniform.

Curing Conditions

The following table offers a guide to the rate of cure of **MM700FG** at various temperatures, kneading of the components at normal ambient room temperatures is recommended to ensure adequate working time for handling. The pot life can be extended to several hours by chilling the components.

Temperature, °C	Max Cure Time	De-mould Time
25	1/4 hrs	1.5
100	15 mins	

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
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Uncured Product

Colour A Part:		White
Colour B Part		Blue
Colour Mixed		Blue
Appearance:		Putty
Pot Life:		15 minutes *
De-mould time		1.5 hours *
* measured at 23+/-2°C and 65% relative humidity using standard catalyst.		
Approved for use with food		Yes

Cured Elastomer

(after 7 days cure at 23+/-2°C and 65% relative humidity)

Tensile Strength:	BS903 Part A2	2.20 MPa
Elongation at Break:	BS903 Part A2	500 %
Youngs Modulus:		0.75MPa
Tear Strength:	BS903 Part A3	12 kN/m
Hardness:	ASTM D 2240-95	37 Shore A
Specific Gravity:	BS 903 Part A1	1.80
Linear Shrinkage:		0.1 %
Coefficient of Thermal Expansion:		
Volumetric		465 ppm / °C
Linear		155 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.

FDA compliance

If approved for food use all components present in the fully cured product are listed in CFR 21, 175.300,"Resinous and polymeric coatings" and CFR 21, 177.2600,"Rubber articles intended for repeated use". The fully cured rubber satisfies the requirements of CFR21, 175.300 and 177.2600, sub paragraphs (e) and (f) for applications involving both aqueous and fatty foods

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

Packages – **MM700FG** is supplied in 1 to 1 kits of equal weight and volume. Please discuss with you regional sales manager for packaging options.

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

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