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Platinum Cure Silicone Rubber

MC Silicone MCPLA -H Series is a two component silicone elastomer which cures at room temperature by a polyaddition reaction. The polymerization can be accelerated by heat (max.1500 C). The silicone components are delivered as liquids, which once mixed and cured transform into a transparent, elastic and resistant material. Polymerization occurs without formation of heat.

Features

High Transparency

High tear and tensile strength

Long shelf life with low shrinkage

Fast mixing (10:1)

Easy processing due to the low viscosity

Applications

Label manufacturing, Molding applications requiring low shrinkage e.g. toys, jewelry, automotive, rapid prototyping etc.

Technical Properties

Item No.	MCPLA-H40A	MCPLA-H40B
Appearance	Viscous liquid	liquid
Color	Transparent	Transparent
Viscosity(at 23°C ,mPa.s,approx.)	45000-50000	
Specific Gravity(g/cm3,approx.)	1.08	
Proportion(A:B)	10:1	
Max working time(at 23°C ,minutes)	60-120	
Demoulding time(at 23,hrs,approx.)	24	
Hardness Shore A(after 24 h)	38--40	
Tensile Strength(Mpa,after 24 h)	5.0-6.0	
Elongation(%)	350	
Tear Strength(N/mm)	25-27	

Processing and Instructions

1. Mixing the two components

According to the mixing ratio 10:1 weighting A and B, the two components may be thoroughly mixed either by hand or using a low-speed electric to minimize the degassing of bubbles and to avoid any temperature increase. Note: It is also possible to use a special mixing and dispensing machine for the silicone components, further information is available upon request.

2. Moulding

The mixture should be degassed preferably at 30 to 50 mbar to eliminate any entrapped air. If a dispensing machine is used, the two components are degassed separately prior to mixing. The silicone mixture expands to 3-4 times of its initial volume and bubbles rise to the surface. The bubbles progressively disappear and the mixture returns to its initial volume after 5 to 10 minutes. Wait a few minutes to complete the degassing and then flash the vacuum. The silicone is ready for pouring, either by gravity or under low pressure.

Note: Flashing the vacuum once or twice accelerates the degassing. It is recommended to use a container with a high diameter/height ratio (3 to 4 times of the initial volume)

3. Polymerisation

The curing may be slowed down at lower temperature or accelerated by applying heat.

Note: in general contact with certain materials can inhibit the cross linking of RTV.

- Natural rubbers vulcanized with sulfur

- RTV silicone compound catalyzed with metal salts, e.g. Tin compounds

- PVC stabilized with tin salts and additives

- Epoxy catalyzed with amines

- Certain organic solvents, e.g. Ketones, alcohols, ether etc.

Packaging

Part A: 20kg per drum, Part B: 1kg per bottle

Other containers are negotiable

Storage and shelf life

MC Silicone MCPLA -H Series should be used within 10 months from the manufacturing date. Beyond this date, MC silicone no longer guarantees the products conform with the sales Specification. In order to preserve best properties it is recommended to follow strictly the following guidelines:

Store the original packing tightly sealed and at a temperature below 30 degree Celsius.

Use the product as soon as the packaging has been opened.

