

RTV MS + Catalyst MS

1. DESCRIPTION

RTV MS + Catalyst MS is a silicone rubber designed for detailed reproduction of objects moulded in material such as polyester/polyurethane resins, plaster, concrete and other "liquid state" compounds. The RTV MS is specially designed for intricate pattern moulds.

The product consists of two components which, when thoroughly mixed, will cure at room temperature. This curing process is by way of a condensation chemical reaction therefore variation in ambient humidity within the moulding facility will have an effect on the curing speed. The product is designed to give a one-hour working time and an eight-hour cure in moderate humidity. It should be used with an original that has been thoroughly cleaned; a release agent is generally not necessary unless moulding from a porous substrate.

2. ADVANTAGES

- Excellent flow characteristics
- Ideal for compound moulds
- Superb elongation allows easy part removal.

3. APPLICATIONS

The mixture should be poured as soon as possible after vacuuming. As is typical of all condensation-cure materials, full mechanical properties will not result until seven days post-cure.

4. MIXING AND CATALYSATION

Weigh 100 parts of base and thoroughly stir as there may be partial separation of filler during storage. This should be a quick-mix prolonged mixing is not necessary. Weigh 5 parts of catalyst MS and mix together until the base and the curing agent are homogeneously dispersed.

Mixing should not be for an extended period of time or at a temperature above 40°C.

5. DE-AERATION

It is recommended that any trapped air be removed by vacuum. The mixture should be allowed to expand and to collapse once within the vacuum chamber. Over-vacuuming the materials will remove important volatile components: this may cause problems with curing and may result in other non-typical properties.

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

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6. PHYSICAL PROPERTIES

<u>TEST</u>	<u>SPECIFICATION</u>
Snap Time (Pot life)	45-90 minutes
Demould Time	8 Hours
Viscosity (25°C)	15,000 - 20,000 Mpa.s.
Shore Hardness (A)	12-16
Tear Strength	>16 kN/m
Tensile Strength	>2.5 Mpa
Elongation	>500%
Specific Gravity (25°C)	1.05 - 1.15

7. HEALTH & SAFETY

(Refer to Health & Safety Data Sheet)

Advice concerning the safe handling of RTV MS + Catalyst MS is given in individual Safety Sheet, which are available upon request.

8. SHELF LIFE

RTV MS + Cat MS should be stored in their original sealed container at temperatures between 10°C and 30°C. Under these conditions a shelf life of nine months can be expected.

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