

MM TA2

Characterization

MM TA2 is a completely new, specially formulated thixotroping agent, for use with the MM900 series of high strength 2-part Silicone Moulding Rubbers.

It has been designed to produce an attractive butter-on consistency within seconds of addition to the catalysed or uncatalysed liquid rubber.

It can be employed with the catalyst, MM CAT B 5NT where a long working period is required or, it can be used with MM CAT R5 NT for a fast cure system, which can be demoulded within 2 hours.

Key Features:

- Easy addition level
- Rapid development of thixotropy
- Suitable for vertical applications within minutes

Technical Data

Typical Properties

Typical physical properties for MM900 Series are given in the corresponding technical data sheets.

Because of the thixotropic nature of an MM900 / MM TA2 system it is almost impossible to produce flawless sheets of rubber for physical testing.

Experience has shown that the MM900 Series Rubbers / MM TA2 catalysed with MM CAT B5 NT shows little significant change in physical properties from the conventionally cured rubber.

A slight drop in physical properties is encountered with the MM900/ MM CAT R 5NT / MM TA2 system but no more than that expected with fast curing systems.

	MM TA2		
Apperance	Clear, colourless to pale yellow		
Relative density at 25°C	0.90		
Viscosity	800		mPa·s

Storability / Storage

With a proper storage the product will hold for approx. 18 months if stored properly below 5 and 30°C and protected from frost in a dry place in closed original containers.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Application Technique

How to use

The following examples are typical for all the MM900 Series

1. For conventional pot-life and cure cycle

MM900 Base	100 parts by weight
MM CAT B5 NT	5 parts by weight
MM TA2	2 parts by weight

Order of Addition

It is not important when using the MM CAT B 5 catalyst, however, the order of addition shown is recommended because it allows the catalyst to be fully dispersed in the liquid rubber before thixotropy is generated.

MM TA2 added at approximately 2% on the rubber generates thixotropy within 2 minutes. A “brush on” or softer thixotropy can be achieved by adding 0.5 to 1.5% of TA2.

Procedure

Catalyse the rubber in the normal way by adding 5 parts by weight of MM CAT B 5NT to 100 parts by weight of MM900 base and mix quickly with minimum aeration until uniformly blue. Add the desired amount of MM TA2 and mix intimately into the catalysed rubber.

If necessary the catalysed rubber may be degassed by intermittent evacuation prior to addition of the thixotroping agent. Leave to relax for a few minutes and then test, before use, on a vertical piece of cardboard or similar substrate to ensure adequate thixotropy has been achieved.

The thixotropic, catalysed rubber may be applied by normal brush or butter-on techniques for a period of up to 60 minutes or longer with certain rubbers.

(Note: the actual working time depends on the ambient temperature, humidity and the catalyst)

2. For Fast Cure and Rapid Demoulding

Reverse the order of addition described above, adding MM CAT R5 NT after thoroughly mixing MM TA2 into the rubber base.

Because of the much faster rate of cure, the working-or pot-life of this system is much shorter. A typical application is approximately 15 minutes and demoulding time can be as short as 2 hours and is seldom greater than 4 (all times depending on ambient temperature and humidity).

It is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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CHT R. Germany GMBH

Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com