

## TECHSIL® TA2 THIXO ADDITIVE

Techsil® TA2 Thixo additive thickening agent is specially formulated thixotroping agent for use with condensation cure, high strength 2-part Silicone Moulding Rubbers. It has been designed to produce an attractive butter-on consistency within seconds.

### Key Features

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

### How to use

The following examples are typical for condensation cure silicones:

1. For conventional pot-life and cure cycle

Silicone Base*	Base 100 parts by weight
Silicone Catalyst*	5 parts by weight
Techsil® TA2	2 parts by weight

### Order of Addition

It is not important when using a standard silicone 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. Techsil® 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 silicone catalyst, 5 to 100 parts\* by weight of silicone base and mix quickly with minimum aeration until uniformed in colour. Add the desired amount of Techsil® 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)

### For Fast Cure and Rapid Demoulding

Reverse the order of addition described above, adding catalyst after thoroughly mixing Techsil® 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)

### Typical Properties

Due to the thixotropic nature of a condensation cure silicone/TA2 system it is almost impossible to produce flawless sheets of rubber for physical testing.

*\*Mix ratio could differ between different silicone kits, check the individual product technical data sheets before use.*

### Contact Details

Techsil Ltd  
Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN  
Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk

Appearance	Clear, colourless to pale yellow
	liquid
Relative density at 25°C	0.9
Viscosity at 25°C	800 mPa.s

### Health and Safety

All products discussed in this data sheet should be stored in their original containers at temperatures between 5 and 30°C The shelf life of Techsil® TA2 is 12 months under the above conditions Techsil® TA2 is unlikely to freeze under normal storage conditions, but should freezing occur, it may be thawed without impairing its performance.

### Packages

Techsil® TA2 is available in 100 g, 500 g and 1 kg pack sizes. All values are typical and should not be accepted as a specification.

### DISCLAIMER

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