

TSE3466

Addition Cure Mouldmaking Compound

Product Description

TSE3466 is a two-component, addition cure liquid silicone rubber designed for mould making. TSE 3466 cures at room temperature to a translucent, high strength, high hardness elastic rubber with the addition of curing agent.

Key Performance Properties

- Excellent dimensional stability
- Excellent release characteristics
- High tensile strength
- Low shrinkage (room temperature cure)

Applications

Arts, crafts, architecture interiors and in the fabrication of buttons

Typical Product Data

| Base Properties | | TSE3466 (A) Base compound | TSE3466 (B) Curing agent |
|--|-------------------|-------------------------------------|------------------------------------|
| Appearance | | translucent | translucent |
| Viscosity | mPa·s | 70 000 | 300 |
| Mix Ratio | Wt % | 10:1 | |
| Work life (23°C) | h | 1.5 | |
| Demould time | h | 24 | |
| Cured Properties (72h @23°C) | | TSE3466 | |
| Appearance | | translucent | |
| Density | g/cm ³ | 1.1 | |
| Hardness | Shore A | 60 | |
| Tensile strength | MPa | 7.4 | |
| Elongation | % | 350 | |
| Tear strength | N/mm | 16 | |
| Linear shrinkage | % | 0.1 | |

Specifications

Typical product data values should not be used as specification. Assistance and specifications are available by contacting Momentive performance materials Technical Service RTV1 and RTV2.



Instruction for Use

Mixing

Select a mixing container 4-5 times larger than the volume of RTV silicone rubber compound to be used. Weigh out the RTV silicone rubber base compound (A) and add the appropriate amount of curing agent (B). With clean tools, thoroughly mix them, scraping the sides and the bottom of the container carefully to produce a homogeneous mixture.

Deaeration

Air entrapped during mixing should be removed to eliminate voids in the cured rubber. Expose the mixed material to a vacuum of 10-20 mbar. The material will expand, crest, and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing ceases.

Curing

TSE 3466 silicone rubber compound will cure sufficiently in 24 hours at 25°C. To achieve faster cure speeds, elevated temperatures may be used.

Caution

TSE 3466 will cure in contact with most clean and dry surfaces. However certain materials, such as butyl and chlorinated rubber, sulphur-containing materials, amines and certain metal soap-cured RTV silicone rubber compounds can cause cure inhibition.

Handling and Safety

Material Safety Data Sheets are available upon request from Momentive performance materials. Similar information for solvents and other chemicals used with the Momentive performance materials products should be obtained from your supplier. When solvents are used, proper safety precautions must be observed.

Storage & Warranty Period

The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 3 months when stored in the original unopened containers below 25 °C.

Availability

TSE3466 (A) is available in 1 kg and 20 kg drums.

TSE3466 (B) is available in 100g and 1 kg cans.



PRINCIPAL LOCATIONS – Regional Information

| | | | |
|--|---|--|--------------------|
| North America | World Headquarters 187 Danbury Road Wilton, CT 06897, USA | T 800.295.2392 | F 607.754.7517 |
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| Pacific | Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan | T +81.3.5544.3100 | F +81.3.5544.3101 |

CUSTOMER SERVICE CENTERS

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| | • Specialty Fluids | T 800.523.5862 | F 304.746.1654 |
| | • UA, Silanes, Resins, and Specialties | T 800.334.4674 | F 304.746.1623 |
| | • RTV Products-Elastomers | T 800.332.3390 | F 304.746.1623 |
| | • Sealants and Adhesives & Construction | T 877.943.7325 | F 304.746.1654 |
| Latin America | E cs-la.silicones@momentive.com | | |
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| | • Venezuela, Ecuador, Peru, Colombia, & Caribbean | T +58.212.285.2149 | F +58.212.285.2149 |
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