



# Mapesil T

## 100%-Silicone Sealant for Heavy Traffic and Movement Joints



### DESCRIPTION

Mapesil T is a professional-grade, 100%-silicone sealant for use on multiple substrates. This product is specifically formulated for heavy traffic and expansion/movement joints exceeding both ASTM and ANSI standards.

### FEATURES AND BENEFITS

- Color-matched to MAPEI's color palette
- Formulated to a low sheen to match the gloss of grout joints
- Rated for heavy-traffic and expansion/movement joints
- 100% silicone for use in interior, exterior, wet and dry installations from Res 1 to 6 and Com 1 to 6 as detailed per TCNA Environmental Classifications
- Excellent elongation and flexibility for use in both change-of-plane and joint applications in tile or stonework
- Can be used in pools and spas
- Helps to prevent mold and mildew

### INDUSTRY STANDARDS AND APPROVALS

- ASTM: Meets C920, Type S, Grade NS, Class 25, Use T1, T2, NT, I, M, G, A and O, and conforms to C794 adhesion properties (#23 Clear color meets ASTM C920, Type S, Grade NS, Class 50, Use NT)
- TCNA: Meets EJ171 requirements for heavy traffic and expansion/movement joints

LEED v3 Points Contribution LEED Points  
 MR Credit 5, Regional Materials\* ..... Up to 2 points

IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants .....1 point  
 IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems.....1 point

*\* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.*

### WHERE TO USE

- Interior/exterior residential and commercial installations from Res 1 to 6 and Com 1 to 6 per TCNA Environmental Classifications
- As a flexible barrier/filler between horizontal/vertical surfaces and any other changes of plane
- Expansion joints in non-traffic, normal-traffic and heavy-traffic areas
- Countertops, vanities, sinks, bathtubs, showers, steam rooms, pools, spas, backsplashes and fixtures

### LIMITATIONS

- Application temperature range is 40°F to 90°F (4°C to 32°C).
- Mapesil T may stain porous materials. Test a small area for staining or leaching before use to ensure compatibility with such porous materials as natural stone.
- Mapesil T should not be used in areas where material may come in contact with plasticizers or other materials that will prevent or diminish adhesion.
- Do not use Mapesil T for structural glazing.



- Not for use in expansion/movement joints with greater than 25% movement
- For joints with depth greater than 1/2" (12 mm), the caulking depth must be controlled by a closed-cell backer rod.
- Joint widths should not exceed 1" (2,5 cm).
- Although *Mapesil T* is color-matched to MAPEI's grout color palette, expect a slight variation in color due to the difference in composition between materials.
- Not paintable; painting should be done before installation of *Mapesil T*.

## SUITABLE SUBSTRATES

- *Mapesil T* adheres to most ceramic tile, porcelain, natural stone, glass, masonry, concrete, brick, wood, aluminum, fiberglass, vinyl, plastic, and properly prepared copper and brass.

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## SURFACE PREPARATION

- Surfaces must be structurally sound, stable, dry, clean and free from dust, oil, grease, paint, gypsum patch, flooring adhesive, tar, wax, sealers, curing compounds, form release agents, laitance, loose particles and foreign substances that could reduce or impair adhesion.
- All installation areas should be thoroughly cleaned mechanically or with a solvent as necessary and be firmly set before caulking. Typically, this is done 24 to 48 hours after tile installation.
- Remove all traces of loose paint, loose particles, residue and cement particles by mechanical means.
- Remove mildew by scrubbing with a mixture of 4 U.S. oz. (118 mL) of trisodium phosphate (TSP), 1 U.S. qt. (946 mL) of liquid bleach and 3 U.S. qts. (2,84 L) of warm water. Protect eyes and hands by wearing goggles and water/chemical-resistant gloves. Thoroughly rinse and allow the surface to dry completely before caulking.
- Vacuum out joints and wipe them clean with a damp rag.

See MAPEI's "Surface Preparation Requirements" document in the Reference & Installation Guides section of the Tile & Stone Installation Systems page on MAPEI's Website.

## MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

- *Mapesil T* comes ready to use.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Caulking should take place after grout in the installation area has set.
2. For a clean, straight and neat sealant joint, mask both sides of the joint with masking tape.
3. Do not open the *Mapesil T* cartridge until preparatory work has been completed. Cut nozzle tip to the desired bead size at a 45-degree angle.
4. It will be necessary to insert a sharp tool (such as a screwdriver) inside the nozzle tip to puncture the protective aluminum foil seal inside the cartridge.
5. Apply *Mapesil T* with a caulking gun using steady, even pressure to completely bridge joints. Completely fill joints with sealant.
6. Tool the sealant using a "jointing tool" or the back of a spoon dipped in a solution of soapy water, to create a concave joint shape with a neat appearance.
7. Immediately after tooling the sealant, remove masking tape and wipe off any sealant from the face of the veneer with a paper towel before the material skins over. If the material skins over, excess sealant may need to be removed before curing with a commercial solvent.
8. Cured sealant will require mechanical means to remove.

## PROTECTION

- Protect the installation area from traffic or water for at least 24 hours at 73°F (23°C).

## Product Performance Properties

Laboratory Test	Results
VOCs (Rule #1168 of California's SCAQMD)	44 g per L
Slump (ASTM C639)	None
Tack-free time (ASTM C679)	20 to 25 minutes
Tooling time	5 to 10 minutes
Shore "A" hardness (ASTM C661)	38 (or 17 for #23 Clear color)
Joint movement (ASTM C920)	+/-25% (or +/- 50% for #23 Clear color)
Elongation at break (ASTM D412)	410%
Weatherability (Accelerated Weathering Tester QUV)	No change after 10,000 hours: Passes
Flexibility (ASTM C734)	Excellent: Passes at -15°F (-26°C)
Freeze/thaw stability: 0°F/77°F (-18°C/25°C) at 24 hours or ASTM C731	Passes 5 cycles

## Shelf Life and Application Properties at 73°F (23°C) and 50% relative humidity

Shelf life	18 months when stored in original, unopened packaging
Full cure	28 days depending on ambient temperature, substrate temperature and humidity
Service temperature range	-60°F to 400°F (-51°C to 204°C)
Colors	Available in MAPEI's palette of 40 colors plus Clear, organized into 5 color collections. Refer to MAPEI's grout/caulk color palette. Sample color chips are available upon request.

## Packaging

Size
Cartridge: 10.1 U.S. oz. (299 mL)

## Approximate Coverage\* per 10.1 U.S. oz. (299 mL)

Joint Size	Coverage
3/8" x 3/8" (10 x 10 mm) depth and width	11 lin. ft. (3,35 m)
1/4" x 1/4" (6 x 6 mm) depth and width	25 lin. ft. (7,62 m)

\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary depending on the joint size and application procedure.

# Mapesil T



Refer to the SDS for specific data related to health and safety as well as product handling.

## LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

[www.mapei.com](http://www.mapei.com). **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use,

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