

Mapeflex P2 NS

Two-Component, Non-Sag, Polyurethane Sealant



DESCRIPTION

Mapeflex® P2 NS is a two-component, non-sag, polyurethane sealant that meets the requirements of ASTM C920.

FEATURES AND BENEFITS

- Two-component
- Provides a chemical cure
- Pre-pigmented
- Non-sag, for easy application to vertical concrete joints
- Can offer +50% joint movement after curing

INDUSTRY STANDARDS AND APPROVALS

- ASTM: Meets ASTM C920-14 (Type M; Grade NS; Class 25; Uses T₁, NT, M, G, A and O)

WHERE TO USE

- Tilt-wall panels
- Precast joints
- Sloped, elevated concrete decks

SURFACE PREPARATION

- The joint walls should be clean and free of bond-breaking materials (such as dirt, wax, form-release compounds, oil, tar, etc.)
- Press a backer rod into each joint to allow a depth that is half the thickness of the joint.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Pre-stir Part A mechanically with a drill and paint mixer.
2. Cut the Part B pouch and slowly add its contents to Part A.
3. Mix continuously until a homogenous color and consistency are achieved.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Use a bulk-load caulk gun to install *Mapeflex P2 NS* into the joints.
2. Do not overfill joints.
3. Finish *Mapeflex P2 NS* with a rounded trowel.
4. Allow to cure.

LIMITATIONS

- Do not install in joints greater than 2" (5 cm) in width.
- Air, material and substrate temperatures during application must be between 40°F and 95°F (4°C and 35°C)

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

Product Performance Properties –

material and curing conditions at 73°F (23°C) and 50% relative humidity

Laboratory Tests	Results
Tensile strength – ASTM D412	280 psi (1.93 MPa)
Elongation at break – ASTM D412	300%
Stress at 100% – ASTM D412	220
Staining and color change – ASTM C510	Passes (no visible stain)
Extrusion rate 3 hours after mixing – ASTM C1183	Passes 40 mL/min
Hardness, Shore A – ASTM 661	27
Tack-free time – ASTM C679	8 to 10 hours
Bond durability on aluminum and concrete – ASTM C719	+/-25%

Weight loss after heat aging – ASTM C1246	1.5%
Cracking and chalking after heat aging – ASTM C1246	None
Artificial weathering Xenon arc, 250 hours – ASTM C793	Passes
Adhesion in peel on aluminum and concrete – ASTM C794	> 30 N
Adhesive bond loss – ASTM C794	Zero
Rheological (flow) – ASTM C639	Non-sag
VOC content (SCAQMD Rule 1168)	< 420 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	1 g per L
Shelf life	1 year when stored in original, unopened packaging
Final cure	About 3 days

CSI Division Classification

Elastomeric Joint Sealants	07 92 13
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Packaging and Shelf Life

Size	Shelf Life
Kit: 1.5 U.S. gals. (5.68 L)	1 year when stored in original, unopened packaging at 73°F (23°C)

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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 nor 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. **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, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

CONTACT INFORMATION

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Customer Service

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For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.
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