



Mapeflex[®] P2 SL

Two-Component, Self-Leveling, Polyurethane Sealant

DESCRIPTION

Mapeflex P2 SL is a two-component, self-leveling, polyurethane, elastomeric sealant that meets the requirements of ASTM C920.

FEATURES AND BENEFITS

- Two-component
- Provides a chemical cure
- Pre-pigmented
- Self-leveling for easy application to horizontal concrete
- Traffic-bearing
- Has the capability of +50% joint movement after curing

INDUSTRY STANDARDS AND APPROVALS

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

WHERE TO USE

- Concrete driveways
- Elevated concrete decks
- Sidewalks

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).

- *Mapeflex P2 SL* is self-leveling and will flow to the lowest point of installation. Use of *Mapeflex P2 NS* may be required for areas with a slope.

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

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. Pour *Mapeflex P2 SL* from mixing container into the joints, or use a bulk-load caulk gun to install the sealant into the joints.
2. Do not overfill joints.
3. Allow *Mapeflex P2 SL* to level. More material may be needed to fill the entire joints.
4. Allow to cure.



Mapeflex P2 SL



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	217
Staining and color change – ASTM C510	Passes (no visible stain)
Extrusion rate 3 hours after mixing – ASTM C1183	Passes 30 mL/min
Hardness, Shore A – ASTM 661	39
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	2.5%
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	Passes
VOCs (Rule #1168 of California's SCAQMD)	43 g per L
Final cure	About 3 days

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)
Kit: 3 U.S. gals. (11.4 L)	
Kit: 4.5 U.S. gals. (17.0 L)	

Refer to the 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).

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.**

We proudly support the following industry organizations:



MAPEI Headquarters of North America
1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) /
(954) 246-8888

Technical Services
1-888-365-0614 (U.S. and Puerto Rico)
1-800-361-9309 (Canada)
Customer Service
1-800-42-MAPEI (1-800-426-2734)

Services in Mexico
0-1-800-MX-MAPEI (0-1-800-696-2734)
Edition Date: November 17, 2022
MK 3000109 (22-3027)