



MAPEFLEX P2 NS
Two-Component, Nonsag, Polyurethane Sealant

SECTION 07 92 00
Joint Sealants

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Products for maintenance of concrete, including the following:
 - 1. Elastomeric polyurethane sealants.

1.2 RELATED SECTIONS

- A. Section 07 92 13 – Elastomeric Joint Sealants.

1.3 REFERENCES

- A. ASTM International:
 - 1. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color and patterns.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 years' experience in manufacturing similar products.
- B. Installer Qualifications: Minimum 2 years' experience in installing similar products.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 PRE-INSTALLATION MEETINGS

- A. Convene at least two weeks prior to starting work of this section.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.



1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.9 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Product Performance:
 - Movement capability – ASTM C719 $\pm$ 25%
 - Elongation break – ASTM D412 300%
 - Tensile strength – ASTM D412 280 psi (1.93 MPa)
 - Staining – ASTM C510 No visible change
 - VOCs 22 g per L
(Rule #1168 of California's SCAQMD)
- B. Acceptable Manufacturer:
 - MAPEI North America
 - 1144 E. Newport Center Dr.; Deerfield Beach, FL 33442
 - Toll-Free for CRS Technical Services: Tel. 888-365-0614
 - Email: CRS@mapei.com
 - Web: www.mapei.com
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
- D. Substitutions: Not permitted.

2.2 ELASTOMERIC JOINT SEALANTS

- A. High-performance, one-component, elastomeric, moisture-cured polyurethane sealant and adhesive.
 - 1. Product: Subject to compliance with requirements, provide MAPEI Corporation; Mapeflex P2 NS.
 - 2. Not less than 25% movement when tested according to ASTM C719.

2.3 MISCELLANEOUS MATERIALS

- A. Portland Cement: ASTM C150/C 150M, Type I, II or III unless otherwise indicated.
- B. Water: Potable.

2.4 MIXES

- A. General: Mix products, in clean containers, according to manufacturer's written instructions.
 - 1. Do not add water, thinners or additives unless recommended by manufacturer.



2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovels or trowels as units of measure.
3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.

PART 3 EXECUTION

3.1 PREPARATION

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

3.2 MIXING

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

- A. Pre-stir Part A mechanically with a drill and paint mixer.
- B. Cut the Part B pouch and slowly add its content to Part A.
- C. Mix continuously until a homogeneous color and consistency are achieved.

3.3 INSTALLATION

Read all installation instructions thoroughly before installation.

- D. Use a bulk-load caulk gun to install Mapeflex P2 NS into the joints.
- E. Do not overfill joints.
- F. Finish Mapeflex P2 NS with a rounded trowel.
- G. Allow to cure.

END OF SECTION