

PRODUCT DATA SHEET

SikaEmaco[®]-426

(formerly MEmaco N 426)

FAST-SETTING POLYMER-MODIFIED VERTICAL PATCHING MORTAR

PRODUCT DESCRIPTION

SikaEmaco[®]-426 is a one-component fast-setting polymer-modified Portland-cement-based repair mortar for vertical and overhead concrete and masonry surfaces.

USES

- Interior and exterior
- Vertical and overhead
- Above grade
- Spalls or holes in concrete
- Deteriorated edges

Substrates

- Concrete
- Masonry

CHARACTERISTICS / ADVANTAGES

- Polymer modification improves adhesion and provides increased freeze/thaw stability
- Only requires the addition of potable water
- Non-sag consistency able to be placed in
- 1" (25 mm) thick lifts

PRODUCT INFORMATION

Chemical Base	SikaEmaco [®] -426 is a proprietary mix composed of cement, graded silica, fillers, dry polymer, and additives.
Packaging	60 lb (27 kg) pails
Shelf Life	12 months when properly stored
Storage Conditions	Store in unopened containers in a cool, clean, dry area

TECHNICAL INFORMATION

Compressive Strength	<u>1 day: 3,000psi (20.6MPa)</u> <u>7 days: 5,000psi (34.5MPa)</u> <u>28 days: 6,500psi (44.8MPa)</u>	(ASTM C 109)
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Modulus of Elasticity in Compression	28 days: 2.18 × 10 ⁶ psi (1.5 × 10 ⁴ MPa)	(ASTM C 469)
Flexural Strength	7 days: 980psi (6.8MPa) 28 days: 1,230psi (8.5MPa)	(ASTM C 348)
Tensile Strength	7 days: 600psi (4.1MPa) 28 days: 810psi (5.5MPa)	(ASTM C 190)

APPLICATION INFORMATION

Coverage	0.6 ft ³ (0.014 m ³) per 60 lb (27.2 kg) pail	
Set Time	10-15 min	(ASTM C 807)
Final set time	15-20 min	(ASTM C 807)

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

NOTES ON INSTALLATION

- Do not bridge moving cracks or joints.
- Do not overwork material
- Do not add plasticizers, accelerators, retarders, or other additives.
- Bonding agents are recommended for large areas as well as permanently damp areas.
- Protect from freezing for 24 hours after application.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of the product data sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

SURFACE PREPARATION

1. The substrate must be structurally sound and fully cured (28 days).

2. Saw cut the perimeter of the area being repaired into a square with a minimum depth of 1/4" (6 mm).
3. The surface to be repaired must be clean, free of laitance, and saturated surface-dry (SSD) following ICRI Guideline no. 310.2 to permit proper bond.

Reinforcing steel

1. Remove all oxidation and scale from the exposed reinforcing steel in accordance with ICRI Technical Guideline No. 310.1R.
2. For additional protection from future corrosion, coat the prepared reinforcing steel with Sikagard® P 8100 AP.

MIXING

1. Precondition material to 70° F ±5° (21° C ±3°) before mixing.
2. Mechanically mix at a slow speed with a 3/4" drill and mixing paddle.
3. Add 3 quarts (2.8 L) of potable water to a clean container. Gradually add powder while mixing at low speed to obtain a uniform, lump-free consistency. Mechanically mix with a slow-speed drill and mixing paddle at 400–600 rpm or use an appropriate-size mortar mixer.
4. Mix for 2–3 minutes. Do not overmix. Add up to 1/2 pint (0.24 L) of potable water only if needed for workability. Do not exceed 3.9 quarts (3.7 L) per 60 lb (27 kg) pail.
5. For applications exceeding the above recommendations, extend SikaEmaco®-426 with up to 15 lbs (6.8 kg) of washed, graded, saturated surface-dry (SSD) aggregate per 60 lb (27.2 kg) pail. When extended, up to 5 60 lb (27.2 kg) pails of SikaEmaco®-426 can be used at once.

APPLICATION

1. Dampen the surface with potable water; it must be saturated surface-dry (SSD) with no standing water.
2. With a gloved hand, scrub a small quantity of mixed material into the SSD substrate. Thoroughly key in and work the material throughout the cavity to promote

- bond. Do not apply more of the bond coat than can be covered with mortar before the bond coat dries.
3. Apply material in lifts of 1/8 – 1" (3–25 mm). Avoid feather edging. For optimum mechanical bond on successive lifts, thoroughly score each lift and allow it to reach the initial set before the next layer is applied. Placement time is 10–15 minutes at 70° F (21° C) and 50% relative humidity.
 4. Trowel, shave, or shape material to the desired finish after the initial set.
 5. The recommended application range of SikaEmaco®-426 is from 40 to 90° F (4 to 32° C). Follow ACI 305 and 306 for hot or cold weather guidelines.

CURING TREATMENT

Cure with an approved water-based curing compound compliant with ASTM C 309 or preferably ASTM C 1315. If the repair area will receive a coating, wet curing is recommended.

CLEANING OF TOOLS

Clean tools and equipment with clean water immediately after use. Cured material must be removed mechanically.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf

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Product Data Sheet

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