

Mapebond HSA

Nonsag, Hardscape Adhesive



DESCRIPTION

Mapebond® HSA is a fast-curing, silane-modified, 100%-solids, moisture-curing, gun-grade adhesive ideal for the re-bonding of manufactured-stone, natural-stone and thin-brick veneer units to exterior and interior walls.

FEATURES AND BENEFITS

- High bond strength
- Elastomeric, maintaining a strong bond while being flexible and accommodating expansion/contraction
- Nonsag formula for vertical applications
- Freeze/thaw-resistant
- Ready to use, with no mixing required
- 50 to 80 minutes of curing time

WHERE TO USE

- Exterior/interior residential and commercial installations on walls and columns
- For manufactured-stone, natural-stone and thin-brick veneer units
- Above-grade
- Pavers and capstones on horizontal surfaces

LIMITATIONS

- Do not use with veneer units weighing greater than 15 lbs. per sq. ft. (6.80 kg per 0.93 m²)
- Do not install veneer units on walls more than 65 feet (19.8 m) above grade.

- Limit use of thin natural-stone veneer to a height of 30 feet (9.14 m) above grade.
- Install only when the substrate temperature is between 20°F and 100°F (-7°C and 38°C). Low temperatures and low humidity will extend curing times.
- Do not use for substrates subject to permanent immersion.
- Do not use near heat sources such as fireplaces or outdoor ovens.
- Do not apply on wet substrates.
- Note: Marble, granite and slate are products of nature made from a vast combination of minerals and chemicals that may cause the material to behave or react in a manner beyond our control. Therefore, determine the suitability of all the materials before proceeding with the installation and test material for possible staining and discoloration.

SUITABLE SUBSTRATES

- Cement backerboard units (CBUs) meeting ASTM C1325
- Thin-set/bonding mortar that is well adhered
- Concrete masonry units (CMUs)
- Poured concrete walls
- Cement stucco basecoat (unpainted)
- Gypsum wallboard (in interior dry areas only)
- Render/leveling coats
- Water-resistive barriers (liquid-applied)*
- Exterior grade plywood (interior only)**

* MAPEI's Mapelastic® WRB and Mapelastic WP

** Plywood must be a Group 1 exterior-grade plywood CC-plugged or better, conforming to APA classification and U.S. Product Standard PS 1-95 or a "SELECT" or (SEL-TF) CANPLY classified exterior-grade plywood conforming to CSA-0121 standard for Douglas fir for direct-bond applications (interior, residential and light commercial in dry conditions only).

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

SURFACE PREPARATION

- All substrates should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent proper adhesion.
- Concrete substrate must be absorptive.

See the "Surface preparation requirements" reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.

PRODUCT APPLICATION

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details. Read all installation instructions thoroughly before installation.

1. Insert the Mapebond HSA cartridge into a suitable caulking gun.

2. Cut the tip of the cartridge and puncture the inner seal.
3. Clean the back of the veneer unit so that it is free of any bond-breaking substance. Do not saturate the back of the veneer unit before the adhesive application, as this can prevent proper adhesion.
4. Apply bead to the back of the veneer unit in a continuous bead, staying 1/2" (12 mm) from the outer edge of the veneer unit.
5. Apply bead in an "S" pattern (serpentine pattern), leaving 1-1/2" (3.8 cm) of spacing between beads, to avoid issues with trapped moisture. Do not apply adhesive in a dot pattern and do not apply bead in a straight line.
6. Affix each veneer unit to the wall, pressing and holding it a few seconds.

CLEANUP

Immediately use mineral spirits to clean tools while the adhesive is still fresh/wet.

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Consistency and color	Smooth paste (white)
Storage	Store at 50°F to 90°F (10°C to 32°C).
VOC content (SCAQMD Rule 1168)	< 65 g per L
Typical VOC content per SCAQMD Rule 1113 or 1168 testing methods	2 g per L

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

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

Working time***	15 to 30 minutes
Curing time	50 to 80 minutes
Service temperature range	-10°F to 200°F (-23°C to 93°C)

*** Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond the materials together.

Note: Working time and curing time will vary based on temperature, humidity, substrate porosity and jobsite conditions.

Packaging

Size

Cartridge: 10.5 U.S. oz. (311 mL)

Approximate Coverage[†]

Product Amount	Coverage
10.5 U.S. oz. (311 mL)	10 to 14 linear feet (3.05 to 4.27 m)

[†] Coverage shown is for estimating purposes only. Actual coverage will vary according to diameter of the bead, substrate profile and type of tile or stone.

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

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

U.S. and Puerto Rico:

Flooring: 1-800-992-6273

Concrete and heavy construction: 1-888-365-0614

Canada:

1-800-361-9309

Customer Service

1-800-42-MAPEI (1-800-426-2734)

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