

Ker 909

Professional Tile Adhesive



DESCRIPTION

Ker® 909 is a ready-to-use, nonflammable, high-viscosity, synthetic polymer emulsion-based adhesive. Ker 909 is used for residential and light commercial interior installations of wall tiles up to 8" x 8" (20 x 20 cm), and interior residential floor and countertop tile up to 6" x 6" (15 x 15 cm). Ker 909 also has a minimal odor, making it ideal for tile installations in confined or restricted areas.

FEATURES AND BENEFITS

- Ready to use
- Low-odor
- Smooth-textured and easy to trowel
- Nonslip for wall applications

INDUSTRY STANDARDS AND APPROVALS

- ANSI: Meets or exceeds A136.1, Type 1 standard
- ISO 13007: Classification DITE

WHERE TO USE

- For residential and light commercial interior installations of wall tiles up to 8" x 8" (20 x 20 cm), and ceiling tiles up to 6" x 6" (15 x 15 cm)

- For interior residential floor and countertop tile up to 6" x 6" (15 x 15 cm) in dry areas only
- For use with most types of glazed and unglazed ceramic and porcelain tiles for floors and walls
- For tub and bath surrounds where service requirements do not exceed the ANSI A136.1, Type 1 standard
- For the installation of wall tile in intermittent wet conditions, such as tub and shower surrounds with precast bases

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not use for exterior applications, steam rooms, shower floors or areas subject to water submersion.
- Do not apply over waterproofing, crack-isolation or uncoupling membranes.
- Do not apply over hardwood flooring, particleboard, Masonite, oriented strand board (OSB), Lauan, gypsum floor-patching compounds, metal or similar dimensionally unstable substrates.
- Use only at temperatures between 50°F and 95°F (10°C and 35°C).
- Do not use for setting bathroom fixtures or grab bars.
- Do not use to set natural stone. For this installation, contact MAPEI's Technical Services Department for product recommendations.

SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry block
- Cement mortars and leveling coats
- Cement backer units (CBUs) (see manufacturer's instructions for approval)
- Gypsum wallboard – interior walls in dry areas only (priming may be required). See the "Surface preparation requirements" reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.
- Plywood underlayments 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 floors and countertops in dry conditions only).

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

SURFACE PREPARATION

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

MIXING

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

- Ker 909 is ready to use. No mixing is required.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Use a typical notched trowel (see the “Approximate Coverage” chart below) with sufficient depth to ensure proper transfer, covering at least 80% of the tile back.
2. Using the trowel's flat edge, spread the adhesive on the substrate. Apply additional material and comb the surface with the trowel's notched side to achieve an even-setting bed. Do not spread more adhesive than can be covered with tiles within 30 to 45 minutes. If skinning occurs, scrape off the skin and replace with fresh adhesive.
3. Place the tiles firmly in position on the fresh adhesive. Push the tiles back and forth in a direction perpendicular to the trowel lines, in order to collapse the adhesive ridges and achieve maximum coverage. Ensure proper contact between the fresh adhesive, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
4. Make all alignments and adjustments immediately (without exceeding 45 minutes).
5. Promptly use water to clean smudges from the face of the tiles while the adhesive is still fresh. Once the adhesive has dried, clean with mineral spirits.
6. Provide for expansion and control joints as specified per the TCNA Handbook, Method EJ171, or the TTMAC Handbook 09.30.00, Detail 301MJ.
7. Wash hands and tools with water while the adhesive is still fresh.

GROUTING

- Allow the tiles to reach a firm set, typically after 24 hours, and then grout with an appropriate MAPEI grout.
- Note that using mastics with porcelain tiles or in cool, moist conditions will extend the time required for a firm set.

PROTECTION

- Protect containers from freezing in transit and storage. This product is freeze/thaw-stable at temperatures down to 0°F (-18°C). However, protect all water-based products from freezing. If this material is frozen, do not stir it until it has completely thawed.
- Provide for heated storage on site and deliver materials at least 24 hours before tilework begins.
- Protect from water until the adhesive has reached its final set, typically from 24 to 48 hours. For shower walls, wait at least 72 hours.
- Floors: Keep free from traffic for at least 72 hours after installation. Plywood or stepping boards may be used after 24 hours when occasional stepping on the floor is unavoidable.
- Walls: Protect from impact, vibration and hammering on adjacent and opposite walls for at least 14 days after installation.

Approximate Coverage*

Classification Code	Classification Requirement	Test Results
D1 (normal mastic)	Shear adhesion strength; Shear adhesion strength after aging; Open time: tensile adhesion strength	Pass
T (vertical slip resistance)	Slip $\leq$ 0.5 mm	Pass
E (extended open time)	$\geq$ 0.5 N/mm ² (after not less than 30 minutes)	Pass

ANSI Specifications

Test Method	Specification Standard	Test Results
ANSI A136.1 – shear strength (7 days)	Dry: $\geq$ 50 psi (0.34 MPa)	Pass
	Wet immersion: $\geq$ 50 psi (0.34 MPa)	Pass
ANSI A136.1 – shear strength (28 days)	$\geq$ 50 psi (0.34 MPa)	Pass

Shelf Life and Product Characteristics

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
VOC content (SCAQMD Rule 1168)	< 65 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	60 g per L

Packaging

Size
Pail: 3.5 U.S. gals. (13.2 L)
Pail: 5 U.S. gals. (18.9 L), Canada only

Approximate Coverage*

Typical Trowel	Coverage per 3.5 U.S. gals. (13.2 L)	Coverage per 5 U.S. gals. (18.9 L)
1/8" x 1/8" x 1/8" (3 x 3 x 3 mm), square-notch	175 to 245 sq. ft. (16.3 to 22.8 m ²)	250 to 350 sq. ft. (23.2 to 32.5 m ²)
3/16" x 5/32" (4.5 x 4 mm), sawtooth-notch	140 to 175 sq. ft. (13.0 to 16.3 m ²)	200 to 250 sq. ft. (18.6 to 23.2 m ²)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm), square-notch	87.5 to 123 sq. ft. (8.13 to 11.4 m ²)	125 to 175 sq. ft. (11.6 to 16.3 m ²)

*Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for tile and stone installation systems**

** At www.mapei.com

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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For the most current product data and BEST-BACKEDSM warranty information,
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