

MapeWrap 11

Structural Epoxy Putty Adhesive for Use with
Structural Strengthening Systems



DESCRIPTION

MapeWrap® 11 is a two-component, 100%-solids, moisture-tolerant, structural epoxy used as an adhesive for the *Carboplate®* composite system. *MapeWrap 11* is also used for leveling uneven concrete or masonry surfaces before application of *MapeWrap* fabrics or *Carboplate* and *Maperod® C* laminates.

FEATURES AND BENEFITS

- 100%-solids, thixotropic epoxy adhesives
- Solvent-free and VOC-compliant
- Moisture-tolerant

WHERE TO USE

- Use on interior/exterior horizontal, vertical and overhead applications
- For bonding *Carboplate* laminate systems to concrete, masonry, wood and steel
- For leveling uneven concrete or masonry surfaces before applying *MapeWrap* composite systems
- For surface sealing before epoxy crack injection
- For bonding steel plates to concrete and wood

SUITABLE SUBSTRATES

- Use on structurally sound, fully cured concrete substrates (at least 28 days old), as well as on masonry, wood and steel.

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

SURFACE PREPARATION

- Before application, thoroughly clean the surface of any substance that could interfere with the bond of *MapeWrap 11*, including dirt, paint, tar asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form-release agents, laitance, loose toppings, foreign substances and adhesive residue.
- Clean steel mechanically to remove any corrosion or coating (to a near white finish) before application of *MapeWrap 11*.
- Concrete substrate and ambient temperatures must be between 40°F and 73°F (4°C and 23°C) before application of *MapeWrap 11*. Temperatures must be maintained within this range for at least 72 hours after installation. For temperature above 73°F (23°C), *MapeWrap 12* instead of *MapeWrap 11* should be applied.
- Mechanically prepare the substrate to provide a proper surface profile, as determined by the engineer. The recommended concrete surface profile is #3 to #5 per the International Concrete Repair Institute (ICRI) 310.2R guideline. In all cases, it is the responsibility of the engineer to assess and specify the appropriate surface profile.
- If *MapeWrap 11* will be used with a MAPEI structural reinforcement system such as *MapeWrap C Uni-Ax System* or *Carboplate System*, the concrete substrate must be primed with *MapeWrap Primer 1* before the application of *MapeWrap 11*.

MIXING

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

1. Pre-mix Part A with a low-speed mixer (at 300 to 550 rpm) and a standard Jiffy paint-mixing paddle for 3 minutes to eliminate segregation of the material accumulated during storage.
2. Pour Part B into Part A and mix with a low-speed mixer (at 300 to 550 rpm) and a standard Jiffy paint-mixing paddle for 3 minutes. Mix until the material has a smooth, homogenous consistency (the same gray color throughout).
3. Part A and Part B components are pre-proportioned (mixing ratio is 3 parts by weight of Part A and 1 part by weight of Part B) and should be mixed as full units. Partial mixing of Part A and Part B is prohibited.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation. When applying the products in a closed environment, provide good ventilation. For further information, carefully read the SDS of each product.

For use as a leveler

1. Apply *MapeWrap 11* with a spring steel trowel.
2. Apply the material using a tight trowel technique so that only small voids and low areas of the substrate are leveled with *MapeWrap 11*. Avoid thick or high-build applications.

For use as an adhesive with *Carboplate* systems

1. Apply a uniform layer of *MapeWrap 11* from 1/32" to 1/16" (1 to 1.5 mm) thick with a flat trowel over *Carboplate* on the side where the protective film has been removed.
2. Apply a 1/32" (1-mm) layer of *MapeWrap 11* with a notched trowel on the area of concrete substrate primed with *MapeWrap Primer 1* that will receive *Carboplate*.

For use as a leveling adhesive for the *MapeWrap C Uni-Ax* System

The application of *MapeWrap 11* is highly recommended to increase the bond and to facilitate the application of heavier fabric equal or greater than 18 U.S. oz. per sq. yd. (600 g per m²). When *MapeWrap 31 T* [NA] is applied, the use of *MapeWrap 11* is not necessary.

1. On concrete surfaces sealed with *MapeWrap Primer 1* but requiring smoothing/leveling, apply a layer of *MapeWrap 11* at an average thickness of 1/32" (1 mm) and maximum thickness of 1/6" (4 mm). Apply with a notched trowel while the primer is still wet and tacky.
2. Use a flat trowel to smooth the surface and remove any imperfections.

CLEANUP

- Due to the high bond strength of *MapeWrap 11* on metal, clean tools with a solvent such as isopropyl alcohol before the product dries. Cured material can only be removed mechanically. Dispose of cured material in accordance with local, state/provincial and federal regulations.

LIMITATIONS

- Apply *MapeWrap 11* when the ambient and surface temperature is between 40°F and 73°F (4°C and 23°C). For temperatures between 73°F and 90°F (23°C and 32°C), use *MapeWrap 12* instead.
- Contact MAPEI's Technical Services Department regarding applications below 40°F (4°C) and above 90°F (32°C). For temperatures between 73°F and 90°F (23°C and 32°C), use *MapeWrap 12* instead.
- Do not thin *MapeWrap 11* with solvents.

Product Performance Properties*

Laboratory Tests	Results
Specific gravity	1.55 g per cm ³
Adhesion to concrete at 7 days and 73°F (23°C) – ASTM C1583	> 435 psi (> 3 MPa), failure in the concrete substrate
Tensile strength at 7 days – ASTM D638	2,774 psi (19.1 MPa)
Tensile elongation at 7 days – ASTM D638	1.23%
Compressive strength at 7 days – ASTM C579	10,774 psi (74.3 MPa)
Bond strength – ASTM C882 2 days (moist-cured) 14 days (moist-cured)	2,334 psi (16.1 MPa) 3,139 psi (21.6 MPa)
Flexural strength – ASTM D790	5,800 psi (40 MPa)

Modulus of elasticity under compression – ASTM C579	1.16 x 10 ⁶ psi (8 GPa)
Modulus of elasticity in flexion – ASTM D790	580,000 psi (4 GPa)
VOC content (SCAQMD Rule 1168)	< 70 g per L
Typical VOC content per SCAQMD Rule 1168 testing methods	15 g per L

*Based on testing of cured samples per ASTM D638 at 72°F (22°C) and 40% relative humidity

Shelf Life and Product Characteristics

Shelf life	2 years in original, unopened container in a covered area at 73°F (23°C)
Storage conditions	50°F to 86°F (10°C to 30°C). Protect from freezing in shipment and storage.

Application Properties

Consistency (mixed)	Thixotropic paste
Color (mixed)	Dark gray
Mix ratio (by weight)	Part A to Part B = 3 to 1
Working time At 50°F (10°C) At 73°F (23°C) At 86°F (30°C)	60 minutes 40 minutes 20 minutes
Setting time At 50°F (10°C) At 73°F (23°C) At 86°F (30°C)	7 to 8 hours 3 to 3-1/2 hours 1-1/2 to 2 hours
Complete curing	7 days

CSI Division Classifications

Maintenance of Cast-In-Place Concrete	030130
Composite Reinforcing	032500

Packaging

Size

Kit (Parts A and B): 1 U.S. gal. (3.79 L)

Approximate Coverage

per 1 U.S. gal. (3.79 L)

For use as a leveling adhesive for the *MapeWrap C Uni-Ax System*

50 to 150 sq. ft. (4.65 to 13.9 m²)

For use as an adhesive for the *Carboplate System*

At 1.97" (5 cm) width = 80 to 95 linear feet (18.3 to 22.9 m) of laminate

At 3.94" (10 cm) width = 35 to 45 linear feet (9.14 to 12.2 m) of laminate

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.**

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