

Mapedek Litescreed Tixo

Lightweight, Thixotropic, Flexible Polyurethane-
Based Screed



DESCRIPTION

Mapedek® Litescreed Tixo is a two-component, lightweight, thixotropic, polyurethane-resin-based screed compound to smooth and level metal surfaces – internal and external, vertical and horizontal – before the installation of finishes or tile.

FEATURES AND BENEFITS

- Levels and smooths vertical and horizontal surfaces up to 3/4" (20 mm) in one application
- Non-sagging thixotropic formula; excellent for vertical applications
- Chemical- and abrasion-resistant

INDUSTRY STANDARDS AND APPROVALS

- *Mapedek Litescreed Tixo* is certified as a "Primary Deck Covering" according to IMO Res. 61(67) FTPC Annex 1, Parts 2 and 6.

WHERE TO USE

- For leveling and smoothing vertical steel surfaces before the installation of finish products, ceramic tile and natural stone
- Interior, exterior and immersed applications

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not dilute *Mapedecck Litescreed Tixo* with solvent or water.
- Do not expose the mixed product to sources of heat.
- Do not install over structural or expansion joints in the substrate.
- Do not install over wet surfaces or standing water.
- Use the product at between 41°F and 86° (5°C and 30°C).
- Do not use the product if the working time has been exceeded.

SUITABLE SUBSTRATES

- Well-supported metal substrates
- Existing polyurethane-based screeds and leveling materials (contact MAPEI Marine's Technical Services for details)

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

SURFACE PREPARATION

- Substrates must be rigid, solidly fixed in place, clean and free of oil, grease, dirt, dust, corrosion, loosely bonded toppings, and any other substance that would reduce or inhibit bond.
- Prepare steel surfaces by mechanical grinding, brushing or blasting according to SSPC SP2-3-11 (ISO 8501-1 ST2-ST3) to remove all oxidation. For best results, prepare steel surfaces to SSPC-SP6 (ISO 8501-1 SA2) surface quality or better.
- Prime steel and existing resin surfaces with an appropriate MAPEI primer – such as *Mapedecck Primer 200*, *Mapecoat Guard 100* or another approved MAPEI primer – before application of *Mapedecck Litescreed Tixo*.
- If the substrate is aluminum or another surface not identified here, contact MAPEI Marine's Technical Services for additional information and for which MAPEI primers are best for your type of application.

MIXING

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

1. *Mapedecck Litescreed Tixo* is a two-component polyurethane. Components A and B can separate in shipment, and each component should be blended separately before being mixed together.
2. *Mapedecck Litescreed Tixo* can either be mixed as a full unit or proportioned by weight. For mixing less than a full unit, carefully measure by weight 5 parts of Component A per 1 part of Component B.
3. *Mapedecck Litescreed Tixo* can be accelerated using an approved catalyst component. Use only MAPEI's *PU Catalyst* and follow dosing instructions as stated in its Technical Data Sheet.

Note: MAPEI cannot be responsible for issues from the use of non-approved catalysts, or use of *PU Catalyst* not in accordance with our written instructions.

4. Add Components A and B of *Mapedecck Litescreed Tixo* to a clean mixing container. Mix for 2 to 3 minutes with a 300- to 400-rpm drill with an appropriate mixing paddle.

5. Do not trap air into the mixture by whipping the product at high speed, or by raising and lowering the mixing paddle rapidly while mixing.
6. If mixing the product "neat" (without filler), pour the entire contents of the mixture into another clean dry bucket and mix for an additional 2 minutes.
7. If mixing *Mapedek Litescreed Tixo* with additional filler (sand) for extension:
 - a. Use washed dried graded silica, ASTM #60 (0.25 mm or 25 micron), by weight at up to 1 kg per 12 kg unit mixed to achieve the desired effect or working properties.
 - b. Add silica to *Mapedek Litescreed Tixo* and blend it into the mix to disperse it completely.
 - c. Pour the entire contents of the mixture into another clean container and mix again for about 2 minutes.
8. Apply the mixture as soon as possible to the substrate, within 30 minutes from the start of the mixing process.
9. Working time will be affected by the product temperature, ambient temperature and substrate temperature. Temperatures above 73°F (23°C) will reduce the working time, and temperatures below 73°F (23°C) will extend the working time. Only mix as much product as can be applied in 30 minutes.
10. Note that use of *PU Catalyst* will significantly shorten the working time of *Mapedek Litescreed Tixo*.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply only when the product, substrate and ambient temperatures are between 41°F to 86°F (5°C to 30°C).
2. Do not install if the temperature of the substrate is not at least 5 degrees Fahrenheit (3 degrees Celsius) above the dew point temperature.
3. Apply *Mapedek Litescreed Tixo* to the surface before the expiration of the working time. This is usually about 45 minutes, depending on ambient and substrate temperatures.
4. Screed or trowel *Mapedek Litescreed Tixo* onto the surface in a thickness of up to 3/4" (20 mm) thick to fill surface depressions or depressions between weld beads.
5. If a second layer of *Mapedek Litescreed Tixo* is required, wait until the product has reached final set (after about 24 hours).

CLEANUP

- Clean tools promptly with mineral spirits or denatured alcohol before the material hardens. Cured material can only be removed mechanically.

CURING

- Cool-weather conditions may extend curing or setting times.
- Warm-weather conditions may accelerate setting and curing times and may reduce working time.

PROTECTION

- Protect *Mapedek Litescreed Tixo* from rain or excessive heat during application and curing.
- Protect the installation from traffic, dirt and dust from other trades until *Mapedek Litescreed Tixo* is completely cured and the final finish, ceramic tile or natural stone has been installed.

Product Performance Properties

Laboratory Tests	Results
Density of mix	1.10 kg/L
Tensile strength – DIN 53504 7 days	3 MPa
Maximum elongation – DIN 53504	65%
Tear strength – ISO 34-1	13 N/mm

Shelf Life and Product Characteristics

before mixing

	Component A	Component B
Physical state	Smooth paste	Liquid
Color	White	Blue
Density of components	1.05 kg/L	1.20 kg/L
Viscosity at 73°F (23°C)	100,000 mPas	100 mPas
Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) and 50% relative humidity (RH)	
Storage conditions	Store in a dry place and protect from freezing.	

Application Properties

at 73°F (23°C) and 50% RH

Mixing ratio by weight, Components A to B	4 to 1
Mixing ratio by volume, Components A to B	44 to 10
Mixing time	2 to 3 minutes
Density of mix	1.10 kg/L
Application temperature range	41°F to 86°F (5°C to 30°C)
Consistency of mix	Thixotropic paste
Working time	30 minutes
Dust-dry	2 to 4 hours
Time before allowing foot traffic	24 hours
Complete hardening time	7 days
Thickness range for single-lift applications	0 to 3/4" (0 to 20 mm)

Packaging

Size
Kit: 26.46 lbs. (12 kg)
Component A: Metal can, 22.05 lbs. (10 kg)
Component B: Metal can, 4.41 lbs. (2 kg)

Approximate Coverage*

Coverage per mixed kit	
Thickness	Coverage
1/16" (1.5 mm)	78.25 sq. ft. (7.27 m ²)
1/2" (12 mm)	9.80 sq. ft. (0.91 m ²)
3/4" (20 mm)	6.57 sq. ft. (0.61 m ²)
Coverage by weight	
0.338 lbs. / sq. ft. / 1/16" thickness (1.1 kg / m ² / 1 mm thickness)	

* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and installation practices.

ADDITIONAL INFORMATION

Refer to the 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).

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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