



DURAFLOOR TGA™

DS-174.0-0116

A product brand of LATICRETE International, Inc.



1. PRODUCT NAME

DURAFLOOR TGA™

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

DURAFLOOR TGA is a unique blend of cements, polymers, color and mineral aggregates to be used to resurface existing concrete surfaces. It combines the durability of concrete with color and decorative aggregate to produce a high-performance floor with a consistent aggregate exposure. DURAFLOOR TGA can be trowel applied 3/8" – 1" (9 -25 mm) thick, cured then polished.

Uses

Use to create an attractive exposed aggregate, colored concrete floor for commercial lobbies, institutional floors, shopping centers, schools, theaters, and restaurants.

Advantages

- Consistent aggregate exposure
- Polished, colorable, overlayment that can be used to create myriad of decorative finishes
- Offers compressive strength greater than standard concrete
- Stylish finish suitable in a variety of settings
- Ideal for concrete repair

Suitable Substrates (Interior Only)

- Concrete Floors

Packaging

60 lb bag (27.3 kg)

Approximate Coverage

Nominal Thickness	Approximate Coverage
3/8" (10 mm)	16 ft ² (1.5 m ²)
1/2" (13 mm)	12 ft ² (1.1 m ²)
1" (25 mm)	6 ft ² (0.6 m ²)

Shelf Life

Bags are to be kept in cool, dry storage to prevent water damage. Shelf life is six months in factory sealed bags.

Limitations

- Potential for cracking is quite common with all cement based products. Therefore, cracks are expected with decorative cement topping projects and are not considered a manufacturing defect. LATICRETE cannot predict if, or to what extent, cracking will occur. Refer to TDS 185D for more info.
- Placement temperature must be between 45-90°F (7-32°C) at the time of placement.
- Do not use on areas subjected to freeze/thaw cycles.

Cautions

- Please refer to Safety Data Sheet (SDS) before using
- Protect finished work from traffic until fully cured
- Contains Portland cement and silica sand
- May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally
- Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children

Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti-dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the decorative flooring system. Please refer to the Wear Surface Variations TDS 185D located at www.laticrete.com.

4. TECHNICAL DATA

Applicable Standard

ASTM C928, ASTM C387

Physical and Working Properties

Property	Observed
Set Time	Initial 15-25 minutes Final Set 45-60 minutes Walk-on 1-2 hours
Compressive Strength ASTM C109	4 hours 2,000 psi (13.8 MPa) 24 hours 4,000 psi (27.6 MPa) 7 days 6,000 psi (41.4 MPa) 28 days 7,000 (48.3 MPa)
Flexural Strengths ASTM C348	28 days 1200 (8.3 MPa)
Minimum Thickness	3/8" (9 mm)

Specifications are subject to change without notification. Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors. All recommendations, statements and technical data contained in this data sheet are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind. Satisfactory results depend upon many factors beyond the control of LATICRETE International, Inc. User shall rely on their own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from their direct use, indirect use or consequential to their use of the product. LATICRETE shall not be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use or inability to use the product.

5. INSTALLATION

Surface preparation: Remove all unsound concrete. Repair all deep, non-moving cracks and deteriorated concrete with L&M™ RESTORE™. Profile surface by shot-blasting, heavy metal grinding or scarifying to achieve a textured surface, (ICRI CSP rating of 3-5), free of coatings, sealers, oil, grease and other surface contaminants.

Priming: Prime all porous, clean surfaces with DRYTEK™ Epoxy Primer. For more information refer to DRYTEK Epoxy Primer DS 077.0 and TDS 230D.

Small Batch Mixing: Due to the rapid setting nature of this product, small batch mixing is recommended for best results. Locate mixer close to work area. Batch mix two bags at a time. Add 4 qts (3.8 L) of water per bag into the mixing tub. Slowly add two bags of powdered DURAFLOOR TGA. Mix with variable speed drill of at least 650 RPM. Mix until uniform in consistency, approximately 2-3 minutes, and place. Do not mix by hand.

Application: Best installed when temperature is between 45°F and 90°F (7-32°C). Apply from 3/8"–1" (9-25 mm) in one pour. In primed area immediately place from one side to the other. Level and flatten with screed darby or gauge rake. Lightly finish with float or hand trowel. Do not overwork surface. Do not feather-edge. Minimum 3/8" (9 mm) depth is mandatory. Honor all expansion joints and control joints.

Deep Application: For depth greater than 1" (25 mm) please consult L&M Technical Service Department at 1.800.362.3331.

Curing and Protection: Immediately after placement keep surface wet for 1-2 hours using a hand pump sprayer with potable water.

Polishing: After 12 hours @70°F (21°C) surface can be polished to proper specifications (400 – 1500 grit). Upon completion of polishing, apply densifier and protective sealer as necessary. Cooler temperatures may require longer cure time. Polishing DURAFLOOR TGA requires an experienced polishing contractor. Final appearance of DURAFLOOR TGA relies on the skill and experience of the polisher.

Crack and Joint Repair: Extend all joints through the total thickness of the overlay system. Use expansion joint material where necessary and saw cut full depth as required.

6. AVAILABILITY AND COST

Availability

L&M™ and LATICRETE® materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at www.lmcc.com.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE Product Warranty

8. MAINTENANCE

The long term performance, appearance, and life expectancy of wear surface products are critically dependent upon a good routine maintenance program designed specifically for the installed wear surface type, traffic, and other conditions. Properly placed walk-off mats, inside and outside will help increase the life of the floor. Some cleaning products and equipment or improper use of products can damage a wear surface appearance over time. Recommended maintenance program consists of frequent and thorough cleanings utilizing FGS Conditioner. Frequency of washing will vary, as it may be necessary daily, weekly or less frequently depending on floor usage and age. A mechanical walk-behind or ride-on scrubber is an efficient and economical means of regularly cleaning concrete floors. Only soft scrubbing or soft brush attachments should be used when mechanically scrubbing your floor. Do not use aggressive abrasive pads or brushes. The use of black scrubbing pads, diamond impregnated pads or carbide impregnated type brushes may dull the surface gloss. Wet mops work well on small floors or places where a mechanical scrubber will not fit.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.362.3331

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE® Product Warranty
- DS 077.0: DRYTEK™ Epoxy Primer
- DS 177.8: L&M™ RESTORE™
- TDS 230D: DRYTEK Substrate Preparation and Primer Guide