



# 8400

DS-044.0-0312



## 1. PRODUCT NAME

DRYTEK® 8400

## 2. MANUFACTURER

LATICRETE International, Inc.  
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Bethany, CT 06524-3423 USA

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Internet: [www.drytek.com](http://www.drytek.com)

## 3. PRODUCT DESCRIPTION

DRYTEK 8400 is a premium quality, fast drying, cement-based underlayment patch designed for use over most substrates including concrete, exterior glue plywood\*, VCT\* and tile. Excellent for deep fills and ramping on interior and exterior applications. Can be applied using a trowel from 1/8 – 1-1/2" (3 – 38 mm)

### Advantages

- Interior or exterior applications
- Excellent Bond Strength
- Easy to Mix and Apply
- Fast Drying, apply finish floor goods in as soon as 40 minutes
- Can be applied directly over wet concrete (RH 95% or less per ASTM F2170) without risk of deterioration of adhesives and subsequent bond loss of glued down goods

### Suitable Substrates

- Concrete
- Exterior Glue Plywood<sup>^</sup>
- Ceramic Tile and Stone

- Vinyl<sup>^</sup>
- Cement backer board<sup>^^</sup>

<sup>^</sup> Interior Only <sup>^^</sup> Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

### Packaging

25 lb (11.3 kg) bag/64 bags per pallet

Color: Grey

### Approximate Coverage

Yield/coverage is only an estimate and may vary depending on the amount of water, mixing equipment, temperature and field conditions.

Per 25 lbs. (11.3 kg) bag

Nominal Thickness	Approximate Coverage
1/8" (3 mm)	32.5 ft <sup>2</sup> (3.02 m <sup>2</sup> )
1/4" (6 mm)	16.3 ft <sup>2</sup> (1.51 m <sup>2</sup> )
1/2" (13 mm)	8.1 ft <sup>2</sup> (0.75 m <sup>2</sup> )
1" (25 mm)	4.1 ft <sup>2</sup> (0.38 m <sup>2</sup> )
1-1/2" (38 mm)	2.7 ft <sup>2</sup> (0.25 m <sup>2</sup> )

### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year ‡ if stored off the ground in a dry area.

‡ High humidity will reduce the shelf life of bagged product.

### Limitations

- Not for applications exposed to extended water exposure or submersion.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacement for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 Filing Systems).
- DO NOT apply at thicknesses above 1-1/2" (38 mm) in one pass.
- Not a wearing surface. Cover cured underlayment with finish flooring.
- Do not bond directly to luan, OSB, particle board or Masonite® surfaces.

- Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length (except where local building codes specify more stringent deflection requirements)

### Cautions

Before using any DRYTEK product

- Read and understand the Product Information Data Sheet and Material Safety Data Sheet.
- Perform a mock-up to ensure product will perform as required
- Check [www.drytek.com](http://www.drytek.com) for any technical bulletins or updated information about the product and its application
- Contact your local DRYTEK Technical Sales Representative with any questions
- Contains portland cement. 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. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

## 4. TECHNICAL DATA

### Physical Properties

TENSILE BOND STRENGTH <sup>A</sup>	> 435 PSI (3 MPA)
FLEXURAL STRENGTH <sup>B</sup>	1015 PSI (7 MPA)
COMPRESSIVE STRENGTH <sup>C</sup>	4350 PSI (30 MPA)

Specifications are subject to change without notification. Results shown are typical but reflect test procedure used. Actual field performance will depend on the type of tile/stone used, installation methods and site conditions.

A. Tensile Bond Strength per ASTM C 1583 test at 28 days, DRYTEK/Primer system over concrete substrate.

B. Flexural Strength per ASTM C 348 – center point loading.

C. Compressive Strength per ASTM C 109 (air dry) – test at 28 days, 2" (50 mm) cubes, air dry.

### Working Properties

Working Time	15–20 minutes
Time To Traffic	30–40 minutes
Install Floor Goods	40 minutes

## 5. INSTALLATION

### Surface Preparation

- Clean substrate to eliminate dust, dirt, oil, grease, paint or any contaminants which may inhibit bonding. Do not use chemicals to clean substrate. Remove any felt-backed floor coverings. Remove any loose particles, vacuum and damp sponge.
- Test surface bond strength of substrate. If minimum 72 psi (0.5 MPa) bond strength is not achieved or the substrate is

contaminated mechanically clean by shot blasting or scarifying.

- Inspect for contraction joints, construction joints, and cracks in the substrate which may be subject to movement after installation of DRYTEK 8400. These must be maintained as joints in the new surface.
- Maintain substrate temperature at a between 44°F (7°C) and 90°F (32°C) during application as well as air temperature between 50–90°F (10–32°C) during drying. Provide adequate ventilation to ensure uniform drying.

### Mixing

DRYTEK 8400 should be mixed with 3.25 – 3.5 quarts (3.1 – 3.3 ℓ) of water per 25 lb (11.3 kg) bag when. Do not over water. Add product to water and mix for 2–3 min with a heavy duty drill (650 rpm) to obtain a lump free mix.

### Application

Apply blended material onto substrate at a thickness of 1/8" to 1-1/2" (3 – 38 mm) for all surfaces. After initial set of material, remove all overlap marks, seams, and inconsistencies by scraping with steel trowel. Material can be walked on after 30–40 minutes.

### Flooring Installation

Finished floor goods can be applied to surface 40 minutes after application, depending on thickness, drying conditions and type of finished floor. Due to the relatively low pH level of DRYTEK self-leveling underlayments, finished floor goods can be applied rapidly without risk of adhesive bond failure. As a general rule, permeable materials such as carpeting may be adhesively or mechanically applied to DRYTEK leveling underlayment, when relative humidity (RH) level of substrate (i.e. concrete slab, etc.) is 95% or below. Non-permeable items such as VCT can be applied at RH levels of 85% or below. RH levels should be determined according to ASTM standard F2170. Always test performance suitability and compatibility of finished floor systems prior to their application. Sample surfaces should be installed as a field test so as to be representative of entire surface and tested for intended use. Always refer to finished floor manufacturers recommendations regarding installation instructions, restrictions and compatibility.

## 6. AVAILABILITY AND COST

### Availability

For Distributor information, call:

Telephone: +1.203.393.0010

For on-line Distributor information, visit DRYTEK at [www.drytek.com](http://www.drytek.com).

### Cost

Contact DRYTEK Technical Sales Representative in your area.

## 7. WARRANTY

See 10. FILING SYSTEM

DS 230.16: DRYTEK 3 Year Product Warranty

## 8. MAINTENANCE

No maintenance required.

## 9. TECHNICAL SERVICES

### Technical assistance

Information is available by calling the DRYTEK Technical Service Hotline (hours 8:00 AM to 5:30 PM EST):

Telephone: +1.877.DRYTEK1, ext. 247 or;

+1.877. 379.8351, ext. 247

Fax: +1.203.393.1948

### **Technical and safety literature**

To acquire technical and safety literature, please visit our website at [www.drytek.com](http://www.drytek.com).

### **10. FILING SYSTEM**

Additional product information is available on our website at [www.drytek.com](http://www.drytek.com). The following is a list of related documents:

DS 230.16: DRYTEK 3 Year Product Warranty

DS 236.0: LATICRETE 9235 Waterproofing Membrane

DS6200.1: LATICRETE Latasil

DS 663.0: LATICRETE Hydro Ban

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