



**DRYTEK**

INNOVATIVE FLOORING SOLUTIONS

# 4000

**DDS-040.0-1212**

## 1. PRODUCT NAME

DRYTEK® 4000

## 2. MANUFACTURER

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

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+1.877. 379.8351, ext. 247

Fax: +1.203.393.1684

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

## 3. PRODUCT DESCRIPTION

DRYTEK 4000 is a cement-based easy-to-use, self-leveling underlayment designed for use over various substrates including concrete and ceramic tile. DRYTEK 4000 provides a smooth and flat surface on which sensitive finished floor goods can be installed. DRYTEK 4000 can be placed from 1/8–3" (3–76 mm) in a single lift.

### Suitable Substrates (Interior Only)

- Concrete
- Vinyl Tile
- Cement Terrazzo
- Exterior Grade Plywood
- Ceramic Tile and Stone
- Cement Mortar Beds

### Advantages

- Pourable and pumpable
- Inorganic; will not contribute to mold/mildew growth
- Suitable surface for most finished floor goods
- Can be applied directly over concrete testing at RH of 95% or less per ASTM F2170

### Packaging

50 lb (22.7 kg) bag/48 bags per pallet

Color: Grey

### Approximate Coverage

Per 50 lb (22.7 kg) bag

Nominal Thickness	Approximate Coverage
1/8" (3 mm)	48 ft <sup>2</sup> (4.4 m <sup>2</sup> )
1/4" (6 mm)	24 ft <sup>2</sup> (2.2 m <sup>2</sup> )
1/2" (12 mm)	12 ft <sup>2</sup> (1.1 m <sup>2</sup> )
1" (25 mm)	6.0 ft <sup>2</sup> (0.6 m <sup>2</sup> )
2" (51 mm)	3.0 ft <sup>2</sup> (0.3 m <sup>2</sup> )
3" (76 mm)	2.0 ft <sup>2</sup> (0.2 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

- Do not install DRYTEK 4000 over particleboard, chipboard, hardboard (Masonite®), Luan panels, asbestos, gypsum-based patching materials, asphalt, coal tar, or lightweight insulating concrete or any other dimensionally unstable materials.
- DRYTEK 4000 is not recommended for steel-wheeled traffic.
- For interior use only.
- Do not install when surface temperature is below 40°F (4°C) or above 90°F (32°C).
- Do not install over painted surfaces.
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties.
- Never mix with cement or admixtures.
- Do not apply DRYTEK 4000 over waterproofing or crack isolation membranes.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane on top of the dry DRYTEK 4000.
- Not for use in submerged applications.
- **Note:** Substrate deflection under all live, dead and impact loads, including concentrated loads, shall comply with applicable building code and finish floor manufacturer requirements.

## Cautions

Before using any DRYTEK product:

- Read and understand the Product Data Sheet and Material Safety Data Sheet.
- 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.
- Consult MSDS for more safety information.
- During cold weather, 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.

## 4. TECHNICAL DATA

Specifications are subject to change without notification. Technical data shown in DRYTEK product data sheets and technical 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.

Pour Depth	1/4" to 3" (6 – 76 mm) Consult Technical Services for depths over 3"
Walkable	3-4 hours at 70°F (21°C)
Tensile Bond Strength (ASTM C 1583)	275 - 305 psi (1.9 – 2.1 MPa)
Flexural Strength (ASTM C 1708) 28 Day Cure	750 - 1000 psi (5.2 – 6.9 MPa)
Compressive Strength (ASTM C 1708) 28 Day Cure	28d: 3300 - 3600 psi (22.8 – 24.8 MPa)
Set Time (ASTM C1708)	Initial @ 20 - 30 min. Final @ 35 - 40 min.
Installed Dry Weight (per square foot @ 1/4" (6mm))	2.35 - 2.47 lbs/ft <sup>2</sup>

## 5. INSTALLATION

### Surface Preparation

- Refer to TDS 230D DRYTEK Substrate Preparation and Primer Guide for more detailed surface preparation instructions.
- All concrete surfaces must achieve an ICRI CSP Profile of 3 - 5.
- 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 loose particles by vacuuming and damp sponging.
- Inspect for contraction joints, construction joints and cracks in the substrate which may be subject to movement after installation of a DRYTEK self-leveling underlayment. These must be maintained as joints through the DRYTEK self-leveling underlayment.
- For exterior grade plywood substrates use 3.2# galvanized diamond metal lath or DRYTEK DM1 Reinforcement Mat.
- Maintain substrate temperature is between 40-90°F (4-32°C) during application and air temperature between 50–90°F (10-32°C) during drying. Provide adequate ventilation to ensure uniform drying.

### Priming

Use DRYTEK Multi-Purpose Primer with every application of DRYTEK self-leveling underlayments. See DS 047.0 and TDS 230D DRYTEK Substrate Preparation and Primer Guide for more detailed dilution, approximate coverage and application instructions.

**Note:** Keep primed surface clean. Do not allow any foot traffic onto surface.

### Mixing

DRYTEK 4000 should be mixed with 4.0 – 4.5 quarts (3.8–4.3 ℓ) of water per 50 lb (22.7 kg) bag. Do not over water. For manual application, add product to water and mix for 2–3 min with a heavy duty drill (650 rpm) to obtain a lump free mix. DRYTEK 4000 can also be used in most pump equipment. Please consult with a DRYTEK representative to verify equipment compatibility. A flow test should always be performed to ensure that the mix is homogeneous and free from separation. The ideal flow range for DRYTEK 4000 is 10–11" (250 – 280 mm) using a DRYTEK Flow Test Kit. See TDS 235D – DRYTEK Flow Test Method - for more detailed instructions on performing flow tests.

### Application

Substrate temperature should be between 40-90°F (4-32°C) during application and air temperature maintained between 50–90°F (10-32°C). Protect areas from direct sunlight. Do not use damp curing methods or curing and sealing compounds. If required to meet level tolerances, survey surface using a digital or electronic leveling device and apply level pegs as required. Adequate ventilation should be provided to ensure uniform drying. Pump or pour blended material onto substrate at an average thickness ranging between 1/4" to 3" (6–76 mm) for all surfaces except structural lightweight concrete where a minimum thickness of 5/8" (16 mm) and wood substrates minimum thickness of 3/4" (19 mm) must be maintained. Immediately following placement lightly smooth the surface and pour lines, when not using elevation pins the use of a gauge rake will assist in controlling material depth. Do not expose DRYTEK self-leveling underlayments to rolling dynamic loads, such as forklifts or scissor lifts, for at least 72 hours after installation. Proper application is the responsibility of the user. Field visits by LATICRETE or DRYTEK personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

### Flooring Installation

Finished floor goods may be installed as soon as 3 days after application, subject to thickness, drying conditions and type of flooring materials. Always refer to finished floor manufacturer's recommendations regarding installation instructions, restrictions, moisture conditions and compatibility.

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.

## 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 a 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:

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 047.0: DRYTEK Multi-Purpose Primer

DS 050.0: DRYTEK DM1 Reinforcement Mat

TDS 230D: DRYTEK Substrate Preparation and Primer  
Guide

TDS 235D: DRYTEK Flow Test Method

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