

## VALUE-ENGINEERED SELF-LEVELING CEMENT

### PRODUCT SUMMARY

**DRYTEK® 4000** is a value-engineered, easy-to-use, self-leveling cement underlayment designed for use over various substrates including concrete and ceramic tile. It's proprietary Low Alkali Cement (LAC) based formulation provides a protective, smooth and flat surface on which sensitive finished floor goods can be laid directly without additional preparation.

### PERFORMANCE CHARACTERISTICS

- Creates permanent Alkali Barrier
- Water damage stable
- Inorganic; will not contribute to mold/mildew growth
- No damaging emissions or irritating fumes
- Suitable surface for most finished floor goods
- 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

### TECHNICAL INFORMATION

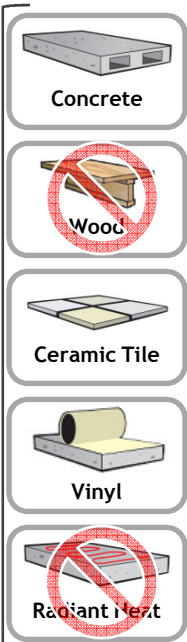
Pour Depths	1/8" - 3"
Coverage at 1/4" thickness per 50lb bag	25 ft <sup>2</sup>
Tensile Bond Strength <sup>A</sup>	250 PSI
Flexural Strength <sup>B</sup>	850 PSI
Compressive Strength <sup>C</sup>	3500 PSI
Dry Density	106 lb / ft <sup>3</sup>
Installed Weight per ft <sup>2</sup> @ 1/4" thickness	2.2 lbs
Ideal Slump Range	10-11 inches
Shrinkage <sup>D</sup>	0.01-0.03%
pH (wet state)	9-11
Working Time	15-20 minutes
Walkable Time	3-4 hours
Install Floor Goods	3 days

NOTE: A) Tensile Bond Strength per ASTM C 1583 test at 28 days, Drytek/Primer system over concrete substrate.  
 B) Flexural Strength per ASTM C 384 - center point loading.  
 C) Compressive Strength per ASTM C 109 (air dry) - test at 28 days, 2" cubes, air dry.  
 D) Shrinkage per ASTM C 157 - time-series testing performed also using MTEC Tester.

### GREEN INFO: USGBC LEED CREDITS

PROJECT	CATEGORY	CREDIT	COMMENT
Indoor Environmental Quality	Low Emitting Materials	EQ 4.1	Negligible VOC content
Materials & Resources	Recycled Content	MR 4.1 MR 4.2	25% pre-consumer recycled material
	Local/Regional Materials	MR 5.1	Dover, NH
		MR 5.2	Job site manufactured with local water

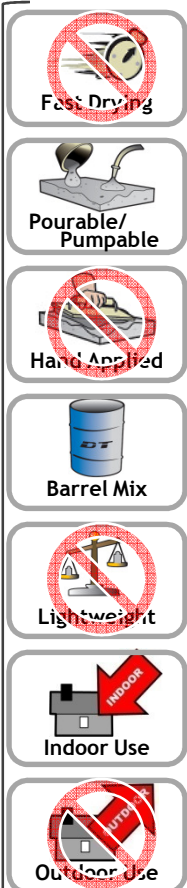
SUITABLE FOR INSTALLATION OVER THESE SUBSTRATES



FUNCTION



FEATURES



Please visit [www.drytek.com](http://www.drytek.com) for the latest technical information.

**BEFORE USING ANY DRYTEK PRODUCT:**

- Read and understand the Product Information 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.

**PREPARATION OF SUBSTRATE**

- 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 cutback adhesive to a thin residue by razor scraping or equivalent. Remove any loose particles and vacuum.
- 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.
- Test moisture content of concrete substrate per ASTM F 2170. If substrate RH exceeds 95% (or if substrate RH exceeds the level required by the manufacturer of the floor goods or coatings to be applied over DRYTEK) install **DRYTEK® MVB** moisture vapor barrier prior to installing **DRYTEK® SELF-LEVELING CEMENT** .
- Inspect for contraction joints, construction joints, and cracks in the substrate which may be subject to movement after installation of **DRYTEK® SELF-LEVELING CEMENT**. These must be maintained as joints in the new surface.
- Maintain substrate temperature at a minimum 43°F (6°C) during application and air temperature between 50-77°F (10-25°C) during drying. Provide adequate ventilation to ensure uniform drying.
- Prime substrate with **DRYTEK® PRIMER**.

**MIXING**

**DRYTEK® 4000** should be mixed with 4.0 to 4.5 quarts of water per 50 lb 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 slump test should always be performed to ensure that mix is homogenized and free from separation.

**APPLICATION**

Pour blended material onto substrate at a thickness of 1/8" to 3" (3-76mm). Perform Drytek Flow Kit test and adjust water accordingly until ideal patty size of 10-11 inches is obtained. Immediately smooth the poured slurry with a smoother. After initial set of material, remove all overlap marks, seams, and inconsistencies by scraping with steel trowel. Material can be walked on after 3-4 hours.

**TOPPING**

A finish coat of **DRYTEK® SELF-LEVELING WEAR SURFACE** (such as **DRYTEK® 7400** or **DRYTEK® 9400**) may be applied to **DRYTEK® 4000** after material has set (3-4 hours). It is extremely important that **DRYTEK® 4000** is primed with two coats of **DRYTEK® PRIMER** following instructions for high suction substrates prior to application of **DRYTEK® SELF-LEVELING WEAR SURFACE**.

**FLOORING INSTALLATION**

Floor goods can be applied to surface 72 hours after application, depending on thickness, drying conditions and type of finished floor. Due to the relatively low pH level of **DRYTEK® SELF-LEVELING CEMENT**, finished floor goods can be applied rapidly without risk of adhesive bond failure. 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 manufacturer's recommendations regarding installation instructions, restrictions and compatibility.

**LIMITATIONS**

Indoor applications only. Not for use over wood substrates. For use over vinyl only with prior written approval from DRYTEK. When applied over ceramic or quarry tile, tile must be applied to a concrete substrate and well-bonded. Not for applications exposed to continuous water of intrusion. Must allow for eventual drying of substrates.

**PACKAGING**

**DRYTEK® 4000** is available in 50 lb polyethylene-lined paper bags.

**STORAGE**

Product should be stored in dry conditions and in original packaging. Use within 6 months of date of manufacture.

**WARNING:** Dust may cause skin, eye, nose, throat, or respiratory irritation. Avoid dust inhalation and exposure to dust. If dusty, wear a NIOSH/MSHA- approved dust respirator. Use proper ventilation to reduce dust exposure. Portland cement is strongly alkaline and can be corrosive to eyes, skin, and respiratory tract. Wear eye and skin protection. If eye contact occurs, immediately flush thoroughly with water for 15 minutes and get medical attention. Do not ingest. If ingested and any discomfort occurs, call physician. **Keep out of reach of children.** For more information and Material Safety Data Sheets please visit [www.drytek.com](http://www.drytek.com)

PLEASE NOTE: Information contained within this brochure is not legally binding. Information contained herein is in good faith but DRYTEK Flooring Solutions LLC (DRYTEK) will not be held liable for improperly applied or used products, nor the specific use of pertinency of a product to a particular project. Information contained herein or otherwise administered by DRYTEK or its affiliates is based on the current and present knowledge of the products when used under normal circumstances and according to DRYTEK recommendations.