



# 104<sup>S</sup> Premium Epoxy Primer

DS-048.0-0312



Approximately Coverage 90–133 ft<sup>2</sup> (8.3–12.3 m<sup>2</sup>) per gallon (3.8 l) at 12–18 mils (0.3–0.5 mm)

## 1. PRODUCT NAME

DRYTEK® 104<sup>S</sup> Premium Epoxy Primer

## 2. MANUFACTURER

LATICRETE International, Inc.  
1 LATICRETE Park North  
Bethany, CT 06524-3423 USA

Telephone: +1.877.DRYTEK1, ext. 247 or;  
+1.877. 379.8351, ext. 247  
Fax: +1.203.393.1684  
Internet: [www.drytek.com](http://www.drytek.com)

## 3. PRODUCT DESCRIPTION

DRYTEK 104<sup>S</sup> Premium Epoxy Primer is a two component, high-solids epoxy primer applied with a sand broadcast – part of the DRYTEK Decorative Wear Surface System.

### Advantages

- Formulated for use under DRYTEK Cementitious Wear Surfaces such as
  - DRYTEK 7400
  - DRYTEK 9400
- Ultimate primer for Decorative Wear Surface Systems.

### Suitable Substrates

Refer to DRYTEK product data sheets for information on suitable substrates.

### Packaging

2 gallon kit (1 7.25 lb net 7.8 kg)  
10 gallon kit (86.25 lb net 39.1 kg)

### Color

Clear

### Approximate Coverage

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

### Shelf Life

Transport and store in clean, dry conditions in unopened containers. Continuous storage temperature should be maintained between 60–90°F (15–32°C ). Protect from freezing. Use within twelve (12) months of date of manufacture.

### Limitations

- When installing a DRYTEK Decorative Wear Surface System be sure to follow all instructions provided for each component of the system.
- Do not apply DRYTEK 104<sup>S</sup> Premium Epoxy Primer to areas where there is standing water.
- DRYTEK 104<sup>S</sup> Premium Epoxy Primer should not be installed over any moving joints or structural cracks (cracks greater than 1/16" [1.5 mm] in width or any crack that experiences any vertical displacement). All existing expansion joints, cold joints and control joints must be brought up through the underlayment and the finish. Failure to honor movement joints will result in cracking and/or loss of bond.
- 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 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

## 4. TECHNICAL DATA

### Physical Properties

RECOMMENDED FILM THICKNESS	12-18 MILS (0.3-0.5 MM)
MIX RATIO	9.35 LB PART A (1 GAL) TO 7.9 LB PART B (1 GALLON) (VOLUMES APPROX.)
ADHESION	350 PSI (2.4 MPA) AT ELCOMETER (CONCRETE FAILURE, NO DELAMINATION)
FLEXURAL STRENGTH	9,300 PSI (64 MPA) AT ASTM D790
COMPRESSIVE STRENGTH	10,100 PSI (67.9 MPA) AT ASTM D695
TENSILE STRENGTH	5,200 PSI (35.9 MPA) AT ASTM D638
ULTIMATE ELONGATION	4.20%
HARDNESS	SHORE D = 73

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.

### Working Properties

Cure Schedule at 70°F (21°C)

Pot Life	15 – 25 minutes
Tack Free Dry	5 – 7 hours
Time to Traffic	14 – 16 hours
Full Cure	2 – 7 days

## 5. INSTALLATION

### Surface Preparation

- For installation of DRYTEK® wearing surface products (e.g. DRYTEK 9400 and DRYTEK 7400) as a decorative topping, all concrete slabs must be shot blasted to ICRI CSP 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 felt-backed floor coverings. 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 until satisfactory bond strength is achieved.
- Inspect for contraction joints, construction joints, and cracks in the substrate which may be subject to movement after installation of the DRYTEK Decorative Wear Surface System. These must be maintained as joints in the new surface.
- Maintain ambient temperature between 60 and 90°F (15–32°C) and substrate temperature 5°F (3°C) above dew point during, and for a minimum of 16 hours after, application of DRYTEK 104S Premium Epoxy Primer. Provide adequate ventilation to ensure uniform drying for 24 hours after installation.

When applying DRYTEK 104S Primer as part of a non-DRYTEK system, please check with a DRYTEK Technical Sales Representative for proper substrate preparation instructions. Refer to application instructions of DRYTEK Wear Surfaces for more information.

### Mixing

- Allow kits of DRYTEK 104S Premium Epoxy Primer to acclimate to local room temperature before mixing.
- Mix Ratio: 9.35 lb part A (1 gal) to 7.9 lb part B (1 gal) (volumes approx.)
- Add Part B to Part A and mix using a low speed drill (400 – 600 rpm) until homogeneous and streak free.
- To ensure complete mix, pour the mixture into a second pail and mix again.
- Once mixed the pot life is 15 to 25 minutes.

### Application

- Apply mixed DRYTEK 104S Premium Epoxy Primer using a 1/4" (6 mm) nap premium quality roller.
- Broadcast fine sand into the freshly poured material (within 20 minutes maximum).
- Sand grain size: less than 1/50" or pass 98.5% sieve size #35
- Sand amount: approximately 2/3 lbs per ft<sup>2</sup> (3.3 kg/m<sup>2</sup>)
- Avoid walking on fresh primer.
- Once sanded avoid walking on for six hours minimum

Allow to cure for 16 hours minimum then sweep and vacuum loose sand.

### Clean up and Disposal

Clean tools and equipment with xylol\*. Cured material must be removed mechanically. Dispose of waste material in accordance with local, state or federal regulations.

\* WARNING: Xylol is flammable and hazardous. Use with proper ventilation. Wear safety goggles and gloves. Consult with MSDS before using Xylol.

### Curing

Protect floor from construction traffic and non-harsh chemicals and protect from moisture until fully cured (see technical data under full cure). And protect floor until DRYTEK Decorative Wear Surface System is installed.

## 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

A component of:

DS 230.17: DRYTEK 15 Year System 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 230.17: DRYTEK 15 Year System Warranty  
DS 042.0: DRYTEK 7400  
DS 045.0: DRYTEK 9400

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LATICRETE International, Inc.  
One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • [www.laticrete.com](http://www.laticrete.com)

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