

## 104<sup>S</sup> - PREMIUM EPOXY PRIMER

### PRODUCT SUMMARY

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

### PERFORMANCE CHARACTERISTICS

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

### TECHNICAL INFORMATION

Color	Clear
Solids By Weight	96.50%
Solids By Volume	96%
Volatile Organic Content	0.30 pounds per gallon
Recommended Film Thickness	12-18 mils
Coverage Per Gallon	90-133 square feet per gallon @ 12-18 mils
Packaging Information	2 gallon kits (17.25 pounds net) 10 gallon kits (86.25 pounds net)
Mix Ratio	9.35 pounds part A (1 gallon) to 7.9 pounds part B (1 gallon) (volumes approx.)
Shelf Life	1 year in unopened containers
Finish Characteristics	Gloss (>70 90 @ 60 degrees @ Erichsen glossmeter)
Abrasion Resistance	Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 22 mg loss
Impact Resistance	Gardner Impact, direct = 50 in.lb. (passed)
Adhesion	350 psi @ elcometer (concrete failure, no delamination)
Viscosity	Mixed = 800-2000 cps (typical)
Dot Classifications	Part A "not regulated" Part B "CORROSIVE LIQUID N.O.S., 8, UN11760, PGII"
Flexural Strength	9,300 psi @ ASTM D790
Compressive Strength	10,100 psi @ ASTM D695
Tensile Strength	5,200 psi @ ASTM D638
Ultimate Elongation	4.20%
Hardness	Shore D = 73

### CURE SCHEDULE (at 70° F)

Pot Life	17 - 27 minutes
Tack Free Dry	5 - 7 hours
Recoat / Topcoat	8 - 12 hours
Walkable	14 - 16 hours
Full Cure	2 - 7 days

### CHEMICAL RESISTANCE

REAGENT	RATING
Butanol	B - 2 hour term splash spill
xylene	B - 2 hour term splash spill
1, 1, 1 trichloroethane	B - 2 hour term splash spill
mek	A - not recommended
methanol	A - not recommended
ethyl alcohol	B - 2 hour term splash spill
skydrol	B - 2 hour term splash spill
gasoline	not rated
10% sodium hydroxide	D - 72 hour immersion
50% sodium hydroxide	D - 72 hour immersion
5% acetic acid	B - 2 hour term splash spill
10% sulfuric acid	C - 8 hour term splash spill
70% sulfuric acid	A - not recommended
10% hydrochloric acid	B - 2 hour term splash spill
20% nitric acid	not rated
ethylene glycol	not rated

**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 SURFACE**

- ❑ 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 the DRYTEK Decorative Wear Surface System.
- ❑ 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 and substrate temperature 5°F above dew point during. Provide adequate ventilation to ensure uniform drying.

When applying **DRYTEK® 104<sup>S</sup> 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® 104<sup>S</sup> PRIMER** to acclimate to local room temperature before mixing.  
 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® 104<sup>S</sup> PRIMER** using a 1/4" nap premium quality roller.  
 Broadcast fine sand into the freshly poured material (within 20 minutes maximum)

- Sand grain size: less than 1/50 of an inch or pass 98.5% sieve size #35
- Sand amount: approximately 2/3 lbs per sq ft
- Avoid walking on fresh primer. Once sanded, surface may be carefully walked on.
- Once sanded avoid walking on for six hours minimum

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

**CLEAN UP & 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.

**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..

**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> PRIMER** to areas where there is standing water.

**PACKAGING**

**DRYTEK® 104<sup>S</sup> PRIMER** is available in either 2 gallon or 10 gallon kits.

**STORAGE**

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



**WARNING: DRYTEK® 104<sup>S</sup> PRIMER is for professional use only. In case of skin contact, wash immediately with water. Wear protective gloves and goggles when handling.** 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).**

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