

# XP 275 POLYUREA/POLYURETHANE PRIMER/BASECOAT

## TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

XP 275 is a high solids, low VOC two component Polyurea/polyurethane primer/basecoat. XP 275 Basecoat provides rapid cure and excellent adhesion to concrete. Summer, Winter and Extreme Heat versions allow for ease of application in various climates and is pre-pigmented for outstanding hide.

### TYPICAL USES/APPLICATIONS

- Basecoat for full broadcast floors
- Primer for pigmented topcoat

### PRODUCT ADVANTAGES

- Rapid cure
- Excellent adhesion
- Fast return to service
- High solids
- Simple mix ratio
- Easy roller application

### PACKAGING

15-Gallon kit  
Part A - 5-Gallon Pail (X2)  
Part B - 5-Gallon Pail

### STORAGE

Product should be stored indoors between 60°F to 85°F away from direct sunlight and moisture.

Make sure containers are completely sealed to prevent moisture contamination and ensure best performance.

Shelf life is 12 months.

### RECOMMENDED APPLICATION TEMPERATURE

XP 275 Extreme Heat: 80°F - 100°F  
XP 275 Summer: 60°F - 80°F  
XP 275 Winter: 30°F - 60°F

### COVERAGE

270 - 300 SQ.FT./Gal. (5 - 6 mils)

### TEST DATA

#### SOLIDS CONTENT (ASTM 2369):

>99.1%

#### VOC (ASTM 2369):

<10 g/L

#### WEIGHT PER GALLON (ASTM D1475):

Part A: 9.37 LB/GAL  
Part B: 10.22 LB/GAL

#### VISCOSITY (ASTM D2196):

Part A: 1400 CPS  
Part B: 500 CPS

#### GEL TIME:

Extreme Heat: 1 Hour  
Summer: 50 Minutes  
Winter: 14 Minutes

#### TACK FREE TIME (ASTM D5895) 5-6 MILS, 50% RH:

Extreme Heat: 4.0 Hours  
Summer: 3.8 Hours  
Winter: 2.5 Hours

#### KÖNIG HARDNESS 30° (ASTM D4366):

15 Day: 31 S

#### SHORE D HARDNESS (ASTM D2240):

10 Day: 55

#### ADHESION (ASTM D4541):

10 Day: >500 PSI (Concrete Failed)

#### TENSILE STRENGTH AND ELONGATION (ASTM D638):

5 MILS

Tensile Strength: 4000 PSI  
Elongation: 95%

#### WATER VAPOR TRANSMISSION (ASTM E96/E96M):

4 MILS

Permeability: 0.78 Perms

All test data collected at 70°F.

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### SURFACE PREPARATION

Make sure surface is properly abraded, clean, and dry before application. Surface must be free of dirt, grease, oil, and other contaminants. Contaminants could lead to surface defects and/or poor adhesion.

Ensure that the floor temperature is more than 5 degrees over the local dew point to avoid water condensation.

Floor moisture should be monitored with a nondestructive electronic moisture meter as per ASTM F2659. Reading should be lower than 5.0% by this method.

### PRE-MIX REQUIREMENTS

Part A: Remove lid and mix with drill mixer for 2 minutes to ensure uniformity.

Part B: Not required.

### MIX RATIO:

2:1 mix ratio by volume (A:B)

### MIX INSTRUCTIONS:

Carefully measure 2 Parts A and 1 Part B by volume and blend together for 2 minutes with a drill mixer. Proceed to application immediately after mixing. Never mix more material than can be installed within 15 minutes.

### APPLICATION

1. Using the appropriate coverage rate, mix only the amount of material that can be installed within 15 minutes.
2. To extend the working time, pour mixed material onto floor in a ribbon like pattern.
3. Spread material evenly with a pre-wetted roller. Use a chip brush to apply around the edges of the floor. 3/8" nap shed resistant 18" roller and 3-4" chip brush are recommended.
4. For Broadcast Systems: broadcast within 15 minutes of the mix time.
5. Work time of the coating is reduced under high temperature and/or humid conditions.
6. For detailed application instructions, refer to Penntek Training Manual or contact the technical support line.

### PRODUCT AND APPLICATION SUPPORT

Refer to the Penntek Training Manual or contact technical support line (952-491-0616) for further information.

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### CHEMICAL RESISTANCE | 24 HOUR SPOT TESTING

CHEMICAL	RESULT
Acetic Acid 30%	2.5
Acetic Acid 5%	4.5
Acetone	1
Ammonia 10%	5
Battery Acid (Sulfuric Acid 37-40%)	4.5*
Brake Fluid	1
Cleaner (Formula 409®)	5
Cleaner (Pine-Sol®)	2*
Cleaner 3% (Pine-Sol®)	4
Coffee	5
Cola	5
Dish Soap (Dawn®)	2*
Dish Soap 1% (Dawn®)	5
Ethylene Glycol / Antifreeze	5
Gasoline	1
Glass Cleaner (Windex®)	4
Hand Sanitizer (Ethanol Based)	1
Household Bleach (10% in water)	3*
Household Bleach	2*
Hydrochloric Acid 20%	4*
Hydrochloric Acid 5%	4.5*
Ice Melt 20%	5
Isopropyl alcohol 99%	1
Ketchup	5
Mineral Spirits	3
Motor Oil (Conventional)	5
Motor Oil (Synthetic)	5
Mustard	4
Sodium Hydroxide 50%	4
Sodium Hydroxide 25%	4
Sodium Hydroxide 5%	4
Sugar Solution 20%	5
Phosphoric Acid 50%	4.5*
Phosphoric Acid 10%	5
Water	5
Windshield Washer Fluid	4
Xylene	1

#### KEY:

**1** = Moderate/severe damage, does not recover  
**2** = Mild damage, does not recover  
**3** = Light damage, partially recovers

**4** = Light damage, fully recovers  
**5** = No damage  
 \* = Staining