



## TECHNICAL DATA SHEET

# XP 275 POLYURETHANE PRIMER/BASECOAT

### PRODUCT DESCRIPTION

XP 275 IS A HIGH SOLIDS, LOW VOC TWO COMPONENT 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 ° - 100 ° F  
XP 275 SUMMER: 60 ° - 80 ° F  
XP 275 WINTER: 30 ° - 60 ° F

### COVERAGE

270 - 300 SQ.FT./GAL. (5 - 6 MILS)

### TEST DATA

#### SOLIDS CONTENT (ASTM 2369):

>99.1%

#### VOC (ASTM 2369):

<10.0 G/L

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

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

#### VISCOSITY (ASTM D7867):

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