



TECHNICAL DATA SHEET

XR 80 HYBRID POLYUREA BASECOAT

PRODUCT DESCRIPTION

XR 80 IS A TWO COMPONENT HYBRID POLYUREA BASECOAT WITH A FAST RETURN TO SERVICE. STANDARD AND SLOW SET VERSIONS ALLOW FOR EASE OF APPLICATION IN VARIOUS CLIMATES.

TYPICAL USES/APPLICATIONS

- BASECOAT FOR CLEAR OR SOLID COLOR FLOOR APPLICATIONS.
- PRIMER FOR UR 4800 AND NX 300 TOPCOAT.

PRODUCT ADVANTAGES

- UV STABLE
- TINTABLE
- FAST CURE / COLD WEATHER CURE
- QUICK RETURN TO SERVICE
- EXCELLENT ADHESION
- SIMPLE MIX RATIO
- EASY ROLLER APPLICATION

PACKAGING

10-GALLON KIT

PART A: 5-GALLON PAIL
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

XR 80: 55° - 75° F
XR 80 SLOW SET: 75° - 90° F

APPLYING MATERIAL OUTSIDE OF THE RECOMMENDED TEMPERATURE RANGE MAY DRAMATICALLY INCREASE OR DECREASE CURE SPEED.

COVERAGE

COVERAGE RATE WILL VARY DEPENDING ON CONCRETE TEXTURE AND POROSITY.

APPROXIMATELY 300 SQ.FT./GAL.

TEST DATA

SOLIDS CONTENT (ASTM 2369): 79.0%

VOC (ASTM 2369): 4 GRAMS PER LITER

WEIGHT PER GALLON (ASTM D1475):

XR 80 PT. A: 8.80 LB/GAL
XR 80 SLOW SET PT. A: 8.75 LB/GAL
PART B: 8.76 LB/GAL

VISCOSITY (ASTM D7867):

PART A: 620 CPS
PART B: 90 CPS

TACK FREE TIME (ASTM D1640):

4 MILS, 50% RH

XR 80: 5 HRS
XR 80 SLOW SET: 11 HRS

ADHESION TO CONCRETE (ASTM D4541):

>500 PSI (CONCRETE FAILED)

KÖNIG HARDNESS 30° (ASTM D4366):

4 MILS

XR 80: 163 S
XR 80 SLOW SET: 178 S

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 SUCH AS CRATERS AND CRAWLING IN THE COATING.

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 5.5% BY THIS METHOD.

FOR BARE CONCRETE:

FLOOR MOISTURE SHOULD BE MEASURED WITH A NONDESTRUCTIVE ELECTRONIC MOISTURE METER AS PER ASTM F2659. READING SHOULD BE LOWER THAN 5.5% BY THIS METHOD. GRIND SURFACE OF THE CONCRETE WITH A DIAMOND GRINDER.

COATING OVER XR 80:

TOPCOAT OR SECOND LAYER OF XR 80 MUST BE APPLIED WITHIN 24 HOURS TO ENSURE PROPER ADHESION. IF COATING PAST 24 HOURS, MAKE SURE XR 80 IS CURED HARD ENOUGH TO SAND AND ABRAD TO UNIFORM DULLNESS.

PRE-MIX REQUIREMENTS

PART A: MIX CONTENTS WITH PADDLE MIXER FOR 2 MINUTES PRIOR TO USE.

PART B: NOT REQUIRED.

MIX RATIO:

1:1 MIX RATIO BY VOLUME (A:B)

MIX INSTRUCTIONS:

CAREFULLY MEASURE 1 PART 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.

KEEP MATERIAL IN THE MIXING BUCKET UNTIL READY TO INSTALL WITH A ROLLER.

ONCE MATERIAL IS APPLIED TO FLOOR, WORK TIME IS SIGNIFICANTLY REDUCED. FINISH ROLLING PRODUCT WITHIN 5-7 MINUTES TO PREVENT SURFACE DEFECTS.

APPLICATION

1. USING THE APPROPRIATE COVERAGE RATE, MIX ONLY THE AMOUNT OF MATERIAL THAT CAN BE INSTALLED WITHIN 15 MINUTES.
2. 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.
3. WORK TIME OF THE COATING IS REDUCED UNDER HIGH TEMPERATURE AND/OR HUMID CONDITIONS.
4. ONCE MATERIAL IS APPLIED TO FLOOR, WORK TIME IS SIGNIFICANTLY REDUCED. FINISH ROLLING PRODUCT WITHIN 5-7 MINUTES TO PREVENT SURFACE DEFECTS.
5. 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.