

UR 4800 | HIGH SOLIDS URETHANE TOPCOAT

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

UR 4800 is clear and post-tintable two component urethane topcoat with high gloss, excellent UV stability and outstanding chemical and abrasion resistance.

TYPICAL USES/APPLICATIONS

- Optical secondary topcoat over full broadcast floor.
- Topcoat for smooth epoxy floors.

PRODUCT ADVANTAGES

- Fast return to service
- Simple mix ratio
- Easy roller application
- Extended potlife
- Extended working time
- Post-tintable

PACKAGING

4-Gallon kit
Part A - 3-Gallon Pail
Part B - 1-Gallon Pail

OPTIONAL COLOR TINT

Only Penntek URX Color Tints may be used in UR 4800 to ensure proper performance and color development.

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

Floor temperatures: 65° - 85°F

Apply material outside of the recommended temperature range may dramatically increase or decrease cure speed.

COVERAGE

401 - 535 sq.ft./gal. (3 - 4 Mils)

TEST DATA

SOLIDS CONTENT (ASTM 2369):

86.2%

VOC:

153 g/L

WEIGHT PER GALLON (ASTM D1475):

Part A: 9.66 Lbs./gal
Part B: 8.03 Lbs./gal

VISCOSITY (ASTM D2169):

Part A: 1650 cPs
Part B: <5 cPs

TACK FREE TIME (ASTM D1640):

3.5 Mils, 50% RH 5.5 Hours

KÖNIG HARDNESS 30° (ASTM D4366):

Full Hardness: 180 s

TABER ABRASION (ASTM D4060):

CS-17 Wheels, 1000G LOAD LOSS/1000 CYCLES: 27 mg

GLOSS (ASTM D523):

Without Anti-slip Additive 20° angle: 76
60° angle: 91

UV RESISTANCE (ASTM G154):

340 NM Bulb, .89 Irradiance, 2350 Hours, 60°C Clearcoat ΔE: < 7
Pigmented ΔE: < 1

TENSILE STRENGTH/ELONGATION (ASTM D638):

3.5 Mils Tensile Strength: 6759 PSI
Elongation: 11.9%

WATER VAPOR TRANSMISSION (ASTM D1653):

3.5 Mils Permeance: 1.25 US Perms

ALL TEST DATA COLLECTED AT 70° F

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SURFACE PREPARATION

Product is intended for use as a topcoat over primed or previously coated concrete floors.

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

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

FOR OVER ANOTHER COATING

Refer to Technical Data Sheet of the coating being topcoated for specific instructions. Some coatings require full abrasion prior to topcoating with UR 4800.

FOR RECOATING UR 4800

Recoating UR 4800 is not recommended unless repairing or refreshing previous floor installations. The previous coat of UR 4800 must be fully abraded to complete uniform dullness, but with final grit size no more coarse than 150 to prevent swirl marks.

PRE-MIX REQUIREMENTS

Part A: not required.

Part B: Lightly shake container prior to use.

MIX RATIO

3:1 Mix ratio by volume (A:B)

MIX INSTRUCTIONS

Carefully measure 3 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 30 minutes.

If using URX Color Tint, fully pre-mix color tint and pre-measure tint at no more than 10% by volume of mixed coating. Add color tint at the beginning of the mixing process to ensure full dispersion of the colorant.

APPLICATION

1. For increased slip resistance, anti-slip additives can be used during installation (Sharkbite®, etc.). The addition of anti-slip additives may reduce gloss.
2. To extend the working time, leave the material in the mixing container until ready to apply. Mix only the amount of material that can be installed within 30 minutes.
3. Using the appropriate coverage rate, 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. Work time of the coating is reduced under high temperature and/or humid conditions.
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.

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CHEMICAL RESISTANCE | 24 HOUR AND 30 MINUTE SPOT TESTING

CHEMICAL	24 HR RESULT	30 MIN RESULT
Acetic Acid 30%	2	4
Acetic Acid 5%	5	
Acetone	1	4.5
Ammonia 10%	5	
Battery Acid (Sulfuric Acid 37-40%)	1.5	5
Brake Fluid	5	
Citric Acid 20%	5	
Cleaner (Formula 409®)	4	
Cleaner (Pine-Sol®)	5	
Coffee	5	
Cola	5	
Dish Soap (Dawn®)	4.5	5
Dish Soap 1% (Dawn®)	5	
Ethylene Glycol / Antifreeze	5	
Gasoline	5	
Glass Cleaner (Windex®)	5	5
Glycerin	5	
Hand Sanitizer (Ethanol Based)	3	5
Household Bleach	5	5
Household Bleach 10%	5	
Hydrochloric Acid 20%	2	3
Hydrochloric Acid 10%	5	
Ice Melt 20% in water	5	
Iodine Solution (Betadine®)	4*	5
Isopropyl alcohol 99%	2	5
Ketchup	5	5
Mineral Spirits	5	
Motor Oil (Conventional)	5	
Motor Oil (Synthetic)	5	
Mustard	4*	5
Phosphoric Acid 75%	1	3.5
Phosphoric Acid 50%	1	5
Phosphoric Acid 10%	5	
Skydrol® LD-4	5	
Sodium Hydroxide 50%	5	
Sugar Solution 20%	5	
Water	5	
Windshield Washer Fluid	5	5
Xylene	5	

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