

NX 300 | POLYASPARTIC TOPCOAT

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

NX 300 is a two component polyaspartic topcoat with high gloss and excellent UV stability. Summer, winter and extreme heat versions allow for ease of application in various climates.

TYPICAL USES/APPLICATIONS

Topcoat for full broadcast floors.

PRODUCT ADVANTAGES

- Rapid cure
- Fast return to service
- Simple mix ration
- 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

NX 300 Extreme Heat: 80°F - 100°F

NX 300 Summer: 60°F - 80°F

NX 300 Winter: 30°F - 60°F

COVERAGE

Over broadcast flake: 150 SQ.FT./Gal

Over smooth surface: 200-230 SQ.FT./Gal
[7-8 MILS]

TEST DATA

VOC (FULL KIT):

Extreme Heat: 92 g/L

Summer: 91 g/L

Winter: 65 g/L

WEIGHT PER GALLON (ASTM D1475):

Extreme Heat Part A: 8.78 LB/GAL

Summer Part A: 8.78 LB/GAL

Winter Part A: 9.05 LB/GAL

Part B: 9.96 LB/GAL

VISCOSITY (ASTM D2196):

Extreme Heat Part A: 970 CPS

Summer Part A: 970 CPS

Winter Part A: 340 CPS

Part B: 150 CPS

TACK FREE TIME (ASTM D5895) 8 MILS, 70°F/50%RH:

Extreme Heat: 10.5 Hours

Summer: 8 Hours

Winter: 1.5 Hours

KÖNIG HARDNESS (ASTM D4366):

Full Hardness: 145 S

TABER ABRASION (ASTM D4060):

CS-17 Wheels, 1000G Load

LOSS/1000 CYCLES: 65 MG

GLOSS (ASTM D523):

60°: 90 Units

TENSILE STRENGTH AND ELONGATION (ASTM D638):

Tensile Strength: 5000 PSI

Elongation: 5%

WATER VAPOR TRANSMISSION (ASTM E96/E96M):

4MILS

Permeability: 3.2 Perms

ALL TEST DATA COLLECTION AT 70°F

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SURFACE PREPARATION

Product is intended for use as a topcoat over a previously primed/coated surface. Not intended for direct to concrete applications.

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. 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.

NX 300 can be re-coated after it cures tack-free and is hard enough to walk on. If re-coating after 24 hours, the surface needs to be abraded to ensure adequate adhesion of the next coating layer.

PRE-MIX REQUIREMENTS

Part A: Invert containers 3 times prior to each use to ensure uniformity.

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.

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 squeegee and back roll 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" chip brush are recommended.
3. Work time of the coating is reduced under high temperature and/or humid conditions.
4. 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%	1	2
Acetic Acid 5%	2	5
Acetone	1	2
Ammonia 10%	5	
Battery Acid (Sulfuric Acid 37-40%)	4	
Betadine Solution	4*	4*
Brake Fluid	2	5
Citric Acid 20%	5	
Cleaner (Formula 409®)	4	
Cleaner (Pine-Sol®)	4	
Cleaner (Pine-Sol® 3%)	5	
Coffee	5	
Cola	5	
Dish Soap (Dawn®)	4	
Dish Soap (Dawn® 1%)	5	
Ethylene Glycol / Antifreeze	5	
Gasoline	2	3
Glass Cleaner (Windex®)	4	
Glycerin	5	
Hand Sanitizer (Ethanol Based)	2	3
Household Bleach	4	
Hydrochloric Acid 20%	1*	3
Hydrochloric Acid 5%	3	5
Ice Melt 20% in water	5	
Isopropyl alcohol 99%	1	3
Ketchup	5	
Mineral Spirits	5	
Motor Oil (Conventional)	5	
Motor Oil (Synthetic)	5	
Mustard	3*	3*
Phosphoric Acid 50%	2	5
Phosphoric Acid 10%	3	5
Sodium Hydroxide 50%	5	
Skydrol® LD-4	3	4
Sugar Solution 20%	5	
Water	5	
Wind Shield Washer Fluid	4	
Xylene	4	

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