



LUXE NANOSHIELD ONE COMPONENT - HIGH PERFORMANCE TOP COAT

TECHNICAL DATA SHEET

DESCRIPTION

PurEpoxy LUXE NanoShield is a protective maintenance and refurbishment top coat with a durable finishing layer for your floor's beauty and performance. It enhances and extends the service life of newly painted or in-service painted assets and dramatically improves corrosion resistance, scratch, abrasion, chemical, and UV resistance. PurEpoxy Luxe NanoShield penetrates deeply into the substrate's pores or top coat to enhance color and improve gloss and surface hardness. PurEpoxy Luxe NanoShield can be applied later as a refurbished top coat to restore and improve the existing painted surface.

PRIMARY APPLICATIONS

PurEpoxy Luxe NanoShield produces a durable, high-gloss clear coat over freshly coated or in-service coated surfaces, including 2K epoxies, polyurethanes and other top coatings, powder coating, anodized aluminum, concrete, and fiberglass, as well as decorative concrete, stone, urethane cement, grind & seal, anti-graffiti, grout, etc.

ADVANTAGES

- Single component product
- May be applied directly over two-component coatings
- Extended service life
- Enhanced color, gloss, hardness, and UV resistance
- Superior scratch resistance - 4H pencil hardness
- Highly Chemical resistant - > 1,500 MEK double-rubs
- Excellent weathering resistance - 99% gloss retention

PROPERTIES

@ 73°F (23°C) & 50% RH

DENSITY	8.0 lb./gal. (0.96 kg/l)
VOC	297 g/l
GLOSS ASTM D523	90 GU
ABRASION RESISTANCE ASTM D4060 CS17 WHEEL	8.4 gram loss (1000 cycles/1,000 gr load)
PENCIL HARDNESS ASTM D3363	4H
PENDULUM HARDNESS ASTM D4366	220
IMPACT RESISTANCE ASTM D2794	>140 in/lb
DMA - CROSSLINK DENSITY (X103 MOL/M3)	2.17
MEK RESISTANCE ASTM D4752	>1,500 double-rubs
QUV ASTM D4587*	99%

PROPERTIES

XENON WOM ASTM G155	99% Gloss Retention	
WATER IMMERSION ISO 2812-2	Pass	
SALT SPRAY ASTM B117	5,000 hours (no rust, no blisters)	
DRYING TIMES	72°F (22°C) 50% RH	90°F (32°C) 50% RH
DUST FREE	20 - 30 minutes	10 - 15 minutes
TACK FREE	30 - 40 minutes	20 - 30 minutes
DRY-TO-HANDLE	4 hours	3 hours
DRY HARD	24 hours	24 hours
FULL CURE	48 hours	48 hours

SURFACE PREPARATION

Coating/Material Compatibility

- PurEpoxy Luxe NanoShield is designed to be applied over recently coated 2K epoxies, 2K polyurethanes, powder coatings, concrete and exposed aggregate.
- May be applied over properly prepared existing 2K epoxies, 2K polyurethanes and powder coatings.

Newly Coated / Wet-on-Wet Coating Application

- PurEpoxy Luxe NanoShield may be applied directly over cured epoxies, polyurethanes, top coatings and powder coatings.
- Allow solvents to fully evaporate from the underlying layers prior to the application of Luxe NanoShield (typically 3-6 hours). A test patch is recommended over your desired coating to determine correct over-coat time.

Cured Coating or In-Service Coated Surfaces

- Repair any structural damage (rust or chipping) using a two-component epoxy or polyurethane primer.
- Surface must be cleaned using a low pH soap, water rinsed and dried
- Surface is ready to be spray applied or rolled with PurEpoxy Luxe NanoShield using the application instructions below.

Surface Maintenance/Cleaning

- Use low pH soap and water for clean up.
- Use lint-free microfiber cloths to clean and dry surfaces.

THINNING

Thinning is not normally required for this product and not recommended.

APPLICATION INSTRUCTIONS

Consult SDS for proper handling, cleanup, disposal and the use of personal protective equipment. Circulate sufficient air to maintain working environment below the PEL and LEL. Apply according to local, state and federal (OSHA) regulations.

Application Conditions

- 40°F (4°C) to 100°F (38°C). Relative humidity: 20% to 90%.
- Surface Application temperature at least 5°F (-15°C) above the dew point
- Maximum over coat time is 4 hours

Application & Thickness

- Apply 1 - 3 wet coats at 2 mils each wet coat using a 1/4-inch nap roller, microfiber pad, or acetone sprayer.
- Allow 2 - 5 hours between coats to allow to reach tack free state
- High gloss: Use acetone sprayer or microfiber pad in 1 - 2 wet coats. Do not exceed 4 - 6 mils per coat.
- Low gloss & Orange Peel effect: 1/4-inch nap roller with 1 - 3 wet coats of 4 to 6 mils each coat, do not exceed x mils per coat

CLEANING

Clean all application equipment with a low-pH cleaner or water. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

APPLICATION EQUIPMENT

- Apply using acetone sprayer, HDX deck pump sprayer, or equivalent, and/or Shur-Line®, or equivalent premium deck pad, roller or brush.
- Streaking or high spots may occur when using a “wipe-on” technique. Avoid high spots; even up while wet

Acetone Sprayer

- Flush and clean sprayer with TBAC or acetone after every use to prevent clogging of tips and tubes

Buffing & Polishing

- Equipment: Orbital sander and orbital polishing equipment
- Orbital Sand: Use 800 grit paper, then 1000, then 1500, then 2000, then 2500 grit paper
- Compound: Use heavy cut compound with wool pad at 1,200 to 1,400 RPM
- Polishing: 3M SRC (scratch resistant, clears) polishing paste with wool at 1,200 to 1,400 RPM
- Final High Gloss Polish: Use light to medium cut polishing paste with wool pad at 1,200 to 1,400 RPM

Important Note

- Use dedicated spray lines and equipment for the best results. Clean equipment immediately after use.
- Avoid contact with skin and hair as Nanoshield will adhere like super-glue
- Maintain a wet edge while recoating

SHIPPING & SHELF LIFE

- Packaging: 0.5 gal. x 2
- Shipping Weight: approximately 10 lb per unit
- Transportation: Min. 40°F (4°C) and Max. 86°F (30°C) for short periods
- Storage and Shelf Life (unopened container): 12 months stored at the recommended temperature
- Storage and Shelf Life (opened container - cap opened-and-closed immediately after pouring contents): 2 months

HEALTH & SAFETY

Read and fully understand all of these instructions before beginning mixing and application. Read and understand product SDS and other safety warnings.

Obtain and wear all required personal protection equipment (PPE.)

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse.

• KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION

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WARRANTY STATEMENT

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