Product Data Sheet

Low Sheen Additive A/O 325 Aluminum Oxide

AO325-PDS-07062026

White Aluminum Oxide 325 Mesh Powder Additive for Low Sheen / Satin Finish in Topcoats

DESCRIPTION: Smith's A/O 325 is a very fine Aluminum Oxide powder low sheen finish additive for use in solvent-based topcoats which are applied as the final layer at 450 to 600 sq.ft. per gallon over a primed / previous resinous layer.

This additive achieves a significant gloss reduction & yields a slightly textured surface finish to help dull the finish of the topcoat.

RECOMMENDED AS A FINAL TOPCOAT FOR USE IN:

- Smith's CRU'86
- Smith's MCU-60
- Smith's Polyaspartic 2000
- Smith's Polyaspartic 8000$_{LO}$

HIGHLIGHTS:

- Reduces Gloss / Sheen
- Yields a slight textured surface
- Improves Chemical & Abrasion Resistance of topcoat

STORAGE: Indoors between 55°F (12.7°C) to 95°F (35°C)

SUBSTRATE SURFACE TEMPERATURE:

**See individual topcoat product data sheet*
***Do NOT Apply below 25% Ambient Humidity*

SHELF LIFE:

4 Years in original, unopened containers;
Use within 30 days once opened

AVAILABLE SIZES:

1 Jar (2 lbs.) – SCS-325AO-016

SHEEN: Low Sheen;
= use 1 jar (16 oz) per mixed gallon of topcoat

PRECAUTIONS / WARNING:

PERSONAL PROTECTION EQUIPMENT RECOMMENDED:
****SEE TOPCOAT SDS FOR MIXED PRODUCT RECOMMENDATIONS***

SLIP RESISTANCE: Smith Paint Products recommends the use of angular slip-resistant aggregate in all coatings that may be exposed to wet, oily or greasy conditions as well as any condition where increased traction may be necessary. It is the contractor and end users' responsibility to determine the appropriate traction needs and footwear necessary for the conditions as well as setting performance parameters prior to beginning the application, testing to determine parameters have been met upon completion to achieve the end users documented safety standards.

Mock-ups are highly recommended as part of the evaluation process to determine the appropriate amount of slip-coefficient necessary for the environment.

Smith's A/O 325 Mesh Aluminum Oxide is too fine to be considered "Non-skid". Instead use Smith's Resin Sand or similar 20 to 60 mesh when using a traction additive.

CURED COATING PROPERTIES (DRY FILM):

PROPERTY	TEST METHOD	RESULTS
Abrasion Resistance ***mg/loss*** ***Taber Abraser**	ASTM D4060	Varies based on topcoat *(*See topcoat product data sheet)*
Gloss (60°)	ASTM D1455	Varies based on topcoat *(*See topcoat product data sheet)*
Color		White to Off-White
Appearance		Powder
Approximate Shipping Weight		2 lbs. jar
VOC's	ASTM D3960	Zero (0) g/L

**CS-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions Results are based on conditions at 77°F (25°C), 50% relative humidity*

APPROXIMATE COVERAGE (WET FILM):

Coverage Equation: 1604 ÷ milage = Wet Film Thickness
**To avoid fogging or foaming, Do NOT Exceed 4 mils in a single coat*
***Coverage varies due to thickness, floor profile & substrate absorbency*

Topcoat with A/O 325 **Wet Mil Thickness**	**Approximate Yield per sq.ft.** **1 Gallon**
3 mils	500 to 600 sq.ft.

LIMITATIONS:

- NOT RECOMMENDED for application to bare, unprimed direct-to-concrete applications
- For industrial & wheeled traffic / fork lift traffic conditions, a minimum of an ICRI CSP 3 profile is required for mechanical preparation
- Does NOT block U.V. light when applied clear over a non-U.V. Stable product (i.e. Epoxy, etc.)
- NOT water clear
- Must be applied at less than 4 mils to expose the filler to create a low sheen
  - Sheen will appear blotchy with shinier areas where the topcoat was too thick and the filler settled beneath surface
- Do NOT install coatings when the Dew point is within 5° of the temperature
- Application is NOT recommended above 80% Humidity at time of install
- Do NOT apply when ambient humidity is below 25% within the first 5 hours of cure to avoid surface defects

MIXING: Add 1 jar of Smith's A/O 325 to each 1 gallon of mixed topcoat. Must be mechanically mixed for 2 to 3 minutes using a ½" low speed (<450 RPM) drill with a paint mixing paddle. Avoid whipping air into mixture.

COVERAGE: *Intended for use in solvent-based thin, topcoats only! DO NOT APPLY thicker than 450 sq.ft. per mixed gallon (roughly 4 WFT) in a single layer to a blotchy, irregular sheen due to the filler settle beneath the cure film surface.*

Apply via dip and roll method out of a paint tray at a rate of 500 to 600 sq.ft. per gallon over previous coated layer OR primer. DO NOT APPLY to bare / unprimed concrete.

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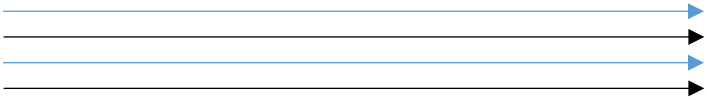
APPLICATION: Smith's A/O 325 is strictly for use in a finish topcoat product intended for no more than 4.5 mils. Any imperfections, sanding marks/swirls, scratches, gouges, etc. that can be felt by hand or catch a finger nail when pulled across the area in the prior layer may transfer through this finish due to the minimal thickness in the final wear layer. Surface defeats are purely aesthetic and pose no threat to the long-term performance of the coating system.

NOTE: *DO NOT POUR ONTO THE FLOOR SURFACE THEN ROLL NOR TURN THE MIXING VESSEL UPSIDE DOWN ON THE SUBSTRATE TO ALLOW THE RESIDUAL PRODUCT TO DRAIN ONTO THE FLOOR.*

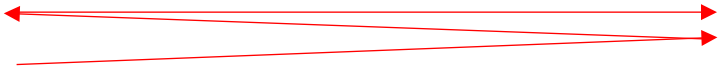
Best practice is to pour the mixed contents into a tall paint tray, such as a Wooster® Wide Boy™ 5 gallon paint tray, or similar, then dip the 3/8" or 1/4" nap roller into the mixture coat the roller head then roll off any excess into the paint tray avoiding liquid build-up on the sides of the roller caps and/or the frame.

Roll out two parallel pathways roughly 8 to 10 feet in length.

Then rewet the roller and repeat.



Next, cross roll in a V-shaped pattern starting at one of the lines on the end working across the area while overlapping ½" over the previous pass while ensuring a uniform film thickness.



Finish by extending the roller out to the furthest point of this area and pull back across the surface with light pressure in a straight line to remove roller marks and overlap each pass by 1/2" continuing across the entire section.

Occasionally, replace with a fresh, new roller cover when it becomes contaminated with debris.

On larger projects, it is recommended to have a separate person perform for each stage of the product placement, V-roll then finishing process to ensure productivity and a uniform appearance to avoid roller lines.

If the appearance is less than satisfactory, repeat the finish roll process again until a satisfactory appearance is achieved. Continue until the entire intended area is topcoated then allow to cure.

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MAINTENANCE: ***The coating system must be allowed to cure for no less than one week before using any mechanical cleaning equipment (i.e. auto-scrubbers, swing buffers, sweepers, etc.) on the surface to include neutral cleaner or water exposure. Only dust & wet mopping may occur the first week.***

Dust mopping, removal of debris and regular cleaning is crucial to maintaining the aesthetics of the coating and obtaining the maximum life span of the floor coating system. Cleaning cannot occur too often and inefficient cleaning will cause the floor to wear out prematurely and possibly stain or discolor depending on what comes in contact with the floor. Spills should be removed quickly. *Avoid the use of Polypropylene or abrasive bristle* (Tynex®) brushes as these brushes will cause the development of scratch patterns and lessen the sheen.

To maximum your investment with proper floor care and maintenance, remove all particles that may scratch and/or dull the floor coating using the least aggressive method necessary to clean the floor.

It is good practice to develop a floor maintenance schedule to be performed at the end of each shift and a set day per week or month for heavy cleaning:

- Daily = Sweep & dust mop or water only mopping/auto-scrubbing; spot clean spills & oils
- Weekly or Monthly = Scrubbed once per week or month depending on the amount & type of soils present.

Health Department or DEA regulations may necessitate more frequent & stringent cleaning practices as will areas exposed to oils, inks, chemicals, etc. on the floor surface.

DETERGENT: Always use the least aggressive detergent necessary to remove the residue, such as a neutral pH detergent for general purpose cleaning. Use Smith's Oil Clean, or similar degreaser, for more degreasing & heavy duty weekly or monthly cleaning.

Caution: *Do not drag or drop heavy objects across any floor, including coatings as scratching, gouging or chipping may occur to the concrete or the coating itself. This includes the tip of the forks on a forklift, nails protruding from a pallet, etc.*

Avoid spinning tires on a coated floor surface as the heat created from the friction of a spinning tire will quickly soften the coating causing permanent damage.

Should a gouge, chip or scratch occur, touch-up the damaged areas immediately to avoid chemical or water intrusion to the concrete which could create additional damage. A thin layer of clear nail polish to the damaged area will provide some minimal protection until the area can be properly repaired.

Rubber tires are prone to plasticizer migration, especially aviation tires & high-performance car tires. Plasticizer will stain coatings & commercial flooring leaving an amber to yellow-like stain that may be permanent. This can be more noticeable where aircraft or vehicles are stationary for longer periods of time, more so in non-climate-controlled environments such as aircraft hangars with lighter colored floors. To avoid plasticizer staining, use a piece of Plexiglas® or LEXAN® panels, cut a few inches in diameter larger than the tires that will rest on the panels, between the floor & the contact point of the tire when storing rubber-tired vehicles on any floor, including floor coating systems. Some tire stains can be removed if cleaned before a set-in stain occurs using a d-Limonene based degreaser with mild agitation via an orbital, low speed floor machine.

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