

TECHNICAL DATA

HWS and SLIP RESISTANT AGGREGATE

for

HIGH PERFORMANCE URETHANE

PRODUCT DESCRIPTION:

Two grades of the Aluminum oxide are available. The 325 mesh is used for increasing wear resistance while the 60 mesh is incorporated to increase slip resistance.

RECOMMENDED FOR:

Recommended for use in our IndustraCoat 3321 and IndustraCoat 3322 polyurethane line of products..

SOLIDS BY WEIGHT:

100%

VOLATILE ORGANIC CONTENT:

Zero

COLOR:

White/off white crystalline granules

PACKAGING INFORMATION

Packaging size varies from a pint to a 5 gallon pail. Normal pint packaging weight is 1.6 pounds

MIX RATIO:

Generally, the product is incorporated into the urethane products at a ratio of 1.60# aggregate for every gallon of mixed liquid

SHELF LIFE:

Indefinite

GENERAL CHARACTERISTICS

APPARENT POROSITY:

3% - 5%

REFRACTIVE INDEX:

1.70 – 1.80

HARDNESS:

Mohs hardness of 9

WATER ABSORPTION:

Approximately 1 percent

MELTING TEMPERATURE:

Greater than 2,000 degrees Centigrade

BULK SPECIFIC GRAVITY:

3.50 – 3.60 (typical) (true density of 3.9-4.0)

DOT CLASSIFICATION:

not regulated

PRODUCT DESCRIPTION:

The Aluminum oxide products are high density, coarse crystalline aluminas that have been converted to corundum form. As such, they are fully shrunk in the manufacturing process. They are produced by sintering calcined alumina at a temperature just under the fusion point of the aluminum oxide. These aluminum particles are then crushed, graded or screened and then ground to their specific powdered particle size. These particles have a high thermal conductivity and good resistance to thermal and mechanical shock. In addition, these particles have a high heat capacity, high electrical capacity and excellent abrasion resistance.

TYPICAL CHEMICAL COMPOSITION:

PROPERTIES	PRODUCT
Al ₂ O ₃	>95%
SiO ₂	<0.05%
Fe ₂ O ₃	<0.10%
Na ₂ O	<0.30%
L.O.I (300-1200 ⁰ C)	0.00%
Alpha Phase	>99%

LIMITATIONS:

- *Always determine suitability by applying a test area. When adding to Urethane products, gloss and slip resistance should be evaluated to determine suitability. Contact the manufacturer for application details.
- * After adding to the Urethane product, occasionally re-stir to insure a homogenous mixture and uniform application appearance.
- *Slab on grade requires moisture barrier.
- *Substrate temperature must be 5°F above dew point.
- *All new concrete must be cured for at least 30 days.
- *Properties are typical values and not specifications.
- *Colors may vary from batch to batch.
- *See individual technical data sheets for application instructions.
- *See reverse side for limitations of our liability and warranty.

- 1) **PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Keep material dry.
- 2) **SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants, and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.
- 3) **PRODUCT MIXING:** The liquid portion of the product selected for use is first thoroughly mixed at the correct mix ratio. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After the liquids are mixed, add in the correct amount of aggregate. Avoid whipping air into the coating. Improper mixing may result in product failure.
- 4) **PRODUCT APPLICATION:** See individual technical data sheets for specific application procedures. Stir the mixed material occasionally to prevent the settling out of the added aggregate. Maintain temperatures within the recommended ranges during the application and curing process. Too thick of an application may result in solvent entrapment and product failure or gloss inconsistencies.
- 5) **RECOAT OR TOPCOATING:** See individual Product technical data sheets for recoat or topcoating application information.
- 6) **CLEANUP:** Refer to individual Technical data sheets for information.
- 7) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.
- 8) **RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see individual technical data sheets under full cure). It is best to let the floor remain dry for the full cure cycle.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***