



ARMHWSX

HWS SLIP RESISTANT AGGREGATE

PRODUCT DESCRIPTION

Two grades of the ultrawear 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 ARM321X and ARM322X polyurethane line of products.

PROPERTIES

COLOR	White/off white crystalline granules
VOC	0 g/l
TOTAL SOLIDS (WEIGHT)	100%
MIX RATIO	1.60# aggregate for every gallon of mixed liquid (1/2 pint per gallon)
TENSILE STRENGTH	3% - 5%
APPARENT POROSITY	1.70 - 1.80
REFRACTIVE INDEX	Mohs hardness of 9
HARDNESS	Approximately 1 percent
WATER ABSORPTION	Greater than 2,000 degrees Centigrade
MELTING TEMPERATURE	3.50 - 3.60 (typical) (true density of 3.9-4.0)
BULK SPECIFIC GRAVITY	-
DOT CLASSIFICATION	not regulated

PRODCUT USE

HWS Ultrawear 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.

STORAGE AND SHELF LIFE

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.

PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Keep material dry.

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.

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.

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.

RECOAT OR TOPCOATING: See individual Product technical data sheets for recoat or topcoating application information.

CLEANUP: Refer to individual Technical data sheets for information.

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.

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.

Typical Chemical Composition:	
Properties	Product
Al ₂ O ₃	>95%
SiO ₂	<0.05%
Fe ₂ O ₃	<.10%
Na ₂ O	<0.30%
L.O.I (300-1200°C)	0.00%
Alpha Phase	>99%

PLEASE READ CAREFULLY

The information herein is to assist customers in determining whether this product is suitable for various applications. Customers assume full responsibility for quality control, testing and determination of suitability of products for its intended application or use. We warrant that our products will meet our written specifications. We make no other warranty of merchantability of fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages, including without limitation to special, incidental, punitive, or consequential damages.

HWS NON SKID AGGREGATE

TOPCOAT