

# ASTRA-A-ARMOUR

## product data sheet



### DESCRIPTION

ASTRA-A-ARMOUR Epoxy Flooring is a combination of 100% solids epoxy and Flintshot, a natural quartz sand. The epoxy and the quartz aggregate are fused together during application into a monolithic surface that is extremely durable, thickness ranges from 3mm- 6mm. ASTRA-A-ARMOUR Epoxy Flooring is similar in application technique, durability and chemical resistance to the time tested ASTRA-A-QUARTZ Epoxy Flooring. It is available in three different textures; standard non-skid, orange peel and smooth.

### BENEFITS

- Excellent Clarity
- Low Odor
- Meets USDA, FDA, OSHA standards
- Superior Adhesion
- Superior Chemical Resistance
- Easy Maintenance

### TYPICAL USES

ASTRA-A-ARMOUR Epoxy Flooring is designed for use wherever USDA, OSHA, FDA and EPA standards must be met. It can be applied on most sound substrates including concrete, quarry tile, brick pavers, steel decks, plywood floors, etc. It is ideally suited for heavy-duty industrial applications, particularly in areas requiring durability, easy maintenance, a high degree of sanitation, and high acid and chemical resistance. ASTRA-A-ARMOUR Epoxy Flooring will protect a new concrete floor from industrial abuse and harsh chemical spillage, and it will restore deteriorated concrete into a better than new condition. Typical areas of application:

- Laboratories
- Traffic Aisles
- Machine Shops
- Production Plants.
- Clean Rooms
- Manufacturing Areas
- Fire Stations
- Pharmaceutical Plants
- Mechanical Rooms
- Animal Care Areas

### SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be profiled, clean, sound, and dry. Substrate must be primed with ASTRA-A-SHIELD, ASTRA-A-POXY WB PRIMER. Please refer to the master "**Surface Preparation Guide**" for more information.

### APPLICATION METHOD /SPREAD RATES

ASTRA-A-ARMOUR is applied with a trowel. A typical yield at 3mm and can be applied to a thickness Upto 6mm See ASTRA-A-ARMOUR application instruction sheet for complete instructions.

### LIMITATIONS

This product is best suited for application in temperatures between 15° C and 35° C. Substrate must be clean, sound and dry. Eroded or spalled areas must be "filled and leveled" with an epoxy grout composed of ASTRA-A-QUARTZ and aggregate.

### CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to the master "**Chemical Resistance Chart**" actual resistance to specific chemicals/reagents

### PACKAGING

ASTRA-A-ARMOUR is available in , 5 Kg pails, and 21 Kg drums. Flintshot quartz sand is available in 25-30 Kg bags.

### CHEMICAL RESISTANCE

This product is resistant to many common chemicals. Please refer to the master "**Chemical Resistance Chart**" for actual resistance to specific chemicals/reagents.

### COLORS

ASTRA-A-ARMOUR is available in 15 standard colors. Please refer to the Standard Color Chart Custom colors are available upon request.

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## TECHNICAL INFORMATION

Physical Property	Test Method	Result
Thardness (Shore D)	ASTM D-2240	70-80
Compressive Strength	ASTM D-695 ASTM C-579	17,500 psi 12,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	4,000 psi 2,600 psi
Tensile Elongation	ASTM D-638	7.50%
Flexural Strength	ASTM D-790 ASTM C-580	6,250 psi 4,500 psi
Flexural Modulus of Elasticity	ASTM D-790	6.2 × 10 <sup>5</sup>
Coefficient of Linear Expansion	ASTM D-696	2 × 10 <sup>-5</sup>
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Indentation	ML D-3134	.025 MAX
Impact Resistance	ML D-3134	Pass
Water Absorption	ASTM D-570	0.04%
Heat Resistance Limitation		70°C - 90°C
Flammability	ASTM D-635	Self Extinguishing
Flame Spread/NFPA 101	ASTM E-84	Class A
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	20 mg loss
Coefficient of Friction Standard Slip-Resistant Orange Peel Smooth	ASTM D-2047	0.9 0.8 0.7
VOC Content		8 g/l

\* Pot life is shorter at higher temperature. Do not use below 10°C or above 34°C

\*\* Cold Cure Hardener is to be used for applications between 5°C and 10°C.

## DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please refer to the Master “**Drawings and Details**” guide for actual drawings.

## GUIDE SPECIFICATIONS

This product is part of the family of ASTRA POLYMER systems. Please refer to the master “**Specifier's Guide**” for complete three part guide specs.

## MOISTURE CONCERNS

Please refer to the Floor Evaluation Flow Chart in the Contractor's Center of our website for a step-by-step process to determine the condition of the concrete.

## CLEANING

This product is considered to be a low maintenance flooring solution, however, certain textures and service environments require specific procedures. Please refer to the master “**Cleaning Guide**” for more information

## JOINT GUIDELINES

Refer to the Joint Guidelines for complete details on our website.

## CAUTION

Adequate cross ventilation should be provided. Read, understand and follow Material Safety Data Sheets and Application Instructions of this flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed.

Before using any ASTRA. product, be sure the Material Safety Data Sheet is read and understood.

## WARRANTIES

Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.