

ASTRA-A-SHIELD

product data sheet



DESCRIPTION

ASTRA-A-SHIELD is a two component, transparent, epoxy primer/sealer designed for penetrating and sealing concrete floors. It is designed to comply with reducing VOC content in floor coatings. It cures to form a tough, smooth, glossy surface. It offers equal or better chemical resistance and performance properties than the old version but with added benefits. ASTRA-A-SHIELD is recommended as a primer for other ASTRA-A-FLEX epoxy coatings and resurfacing systems.

BENEFITS

- Easy to Use
- Easy Maintenance
- Easy Mix Ratio 3:1
- One Coat Application
- Excellent Adhesion

TYPICAL USES

ASTRA-A-SHIELD is typically used as a primer for many of the ASTRA-A-FLEX flooring systems.

As a stand alone system:

- Warehouses
- Auditoriums
- Garages
- Machine Shops
- Storage Areas
- Hangars

As a primer for:

- ASTRA-A-GLAZE EPU
- ASTRA-A-QUARTZ
- ASTRA-A-GLAZE S/L
- ASTRA-A-ARMOUR TOP
- ASTRA-A-GLAZE SR#10

PACKAGING

ASTRA-A-SHIELD is available in 4 Kg cans, 21 Kg pails and 50 Kg drums.

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be roughened, clean, sound, and dry. Please refer to the master "Surface Preparation Guide" for more information.

APPLICATION METHOD /SPREAD RATES

ASTRA-A-SHIELD is typically applied with a roller at approximately 60-50 Sq Ft per Kg, depending on substrate type and condition. Use a high quality, mohair type, roller cover. Soak roller in a suitable paint tray or a large pail.

For proper flow and wetting, maintain ASTRA-A-SHIELD at room temperature prior to mixing. The hardener and resin should be thoroughly mixed before combining. Scrape the bottom and sides of each container. The resin and hardener can then be combined and mixed using a slow-speed electric drill with a Jiffler type mixing attachment.

LIMITATIONS

This product is best suited for application in temperatures between 15°C and 35°C. Substrate must be clean, sound, and dry.

This product is designed to be applied thin. Do not use this product to "fill" or "level any surface imperfections.

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-SHIELD is produced clear but can be tinted by adding ASTRA-A-SHADE. ASTRA-A-SHIELD is available in 15 standard colors. Custom colors are available upon request.

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PHYSICAL PROPERTIES

Physical Property	Test Method	Result
60 Gloss	ASTM D-523	90+
Impact Resistance	ASTM D-2794	>160
Solids by volume		57+/-5
Adhesion	ASTM D-4541	550 psi
Hardness ASTM	ASTM D-3363 ASTM D-2134	4H 60+
Flexibility (1/4: Cylindrical mandrel)	ASTM D-1737	Pass
Elongation	ASTM D-2370	7%
Re-Coat Time	at 22°C	6 Hrs
Coefficient of Friction	ASTM D-2047	>0.6 Dry
Abrasion Resistance CS-17 wheel (1000g load) 1000 Cycles	ASTM D-4060	22 mg loss
Dry Time	at 22°C	6 Hrs
Tack Free	at 22°C	4 Hrs
VOC Content		0

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.