

# ASTRA ULTIMATE

## product data sheet



### DESCRIPTION

ASTRA-ULTIMATE is a heavy duty, trowel applied, seamless floor topping comprised of specially formulated two component, 100% solids epoxy resins and select graded colored or plain quartz aggregate. It is designed to repair deteriorated floors and to protect new floors from chemical deterioration and industrial abuse. ASTRA-ULTIMATE adheres tenaciously to properly prepared concrete ULTIMATE, quarry tile, ceramic tile and brick pavers. A seamless, sanitary, cove base can be incorporated into this system.

### BENEFITS

- Fills and Levels Deteriorated Substrates
- Long Working Time
- Easy to Trowel
- No Odor
- Can Be Non-Skid or Smooth Texture

### COLORS

ASTRA-ULTIMATE is natural but is available in 15 standard colors when mixed with SHOP-FLOOR liquids. Please refer to the Standard Color Chart. Custom colors are available upon request.

### TYPICAL USES

ASTRA-ULTIMATE is ideally suited for use where OSHA, USDA, and EPA standards must be met. Such as:

- Machine Shops
- Loading Docks
- Traffic Aisles
- Ramps
- Heavy Manufacturing Areas
- Spelled Joint Repair

### 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

ASTRA-ULTIMATE is always hand or power troweled Directly on Shot blasted Surface or into a wet primer of ASTRA-A-POXY on normally Ground Surface. It is customarily applied at 2-3mm thickness but can be applied as thick as necessary to fill and level an eroded or spalled concrete floor.

### LIMITATIONS

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

### PACKAGING

ASTRA-ULTIMATE hardener and resin is available in 5 Kg pails, and 22 Kg pails and 50 Kg drums. ASTRA-A-POXY is available in 1 Kg cans, 5 Kg pails and 21 Kg drums. ASTRA-ULTIMATE TROWEL MIX aggregate is available in 25-30 bags.

### CHEMICAL RESISTANCE

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

# ASTRA-ULTIMATE

## TECHNICAL INFORMATION

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	80
Compressive Strength	ASTM D-695 ASTM C-579	17,500 psi 12,500 psi
Tensile Strength	ASTM D-638 ASTM C-307	2,500 psi 1,800 psi
Tensile Elongation	ASTM D-638	7.00%
Flexural Strength	ASTM D-790 ASTM C-580	(C-293) 5,900 psi 4,200 psi
Flexural Modulus of Elasticity	ASTM D-790	$6.0 \times 10^5$
Linear Expansion	ASTM D-696	$2 \times 10^{-5}$
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Indentation	MIL D-3134	No indentation
Impact Resistance	MIL 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 CS-17 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	20 mg loss
Coefficient of Friction Standard Slip-Resistant Orange Peel Smooth	ASTM D-2047	0.95 Unsealed 0.8 0.7
VOC Content		0 g/l

## 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.