

ASTRA-CRETE KT

product data sheet



DESCRIPTION

ASTRA-CRETE KT is a 100% solids aromatic urethane system. It is a pigmented, double broadcast and topcoat(s) with natural quartz. ASTRA-CRETE KT is also a topcoat for the ASTRA-CRETE MDB system. ASTRA-CRETE KT is designed to withstand thermal shock and chemical attack.

BENEFITS

- Low Odor
- Meets USDA, FDA, OSHA and CFIA standards
- Superior Adhesion
- Superior Food Acid Resistance
- Easy Maintenance
- Thermal Shock Resistant

COLORS

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

TYPICAL USES

ASTRA-CRETE KT is designed to protect concrete, prepared metal and wood substrates from chemical attack, corrosion, impact and thermal shock. Repeated exposure to hot oil or steam does not cause pitting, cracking or crazing. Typical areas of application:

- Food Processing Areas
- Bottling Areas
- Cook / Chill Areas
- Sanitize / Wash Areas
- Automotive Service Bays
- Steel Decks

STORAGE CONDITIONS

ASTRA-CRETE KT must be stored dry. Exposure of the resin to moisture for extended periods can lead to bubble formation during cure. Exposure of the hardener to water will lead to pressure build up from carbon dioxide generation. Do not reseal containers contaminated with moisture. The shelf life is 12 months from ship date in the original unopened container.

ASTRA-CRETE KT ACCELERATOR

ASTRA-CRETE KT accelerator can be used to achieve a faster cure time between 20°C – 30°C. See the Product Data Sheet for complete instructions.

SURFACE PREPARATION

Priming is mandatory to prevent outgassing and blistering. Substrate must be profiled, dry, clean, oil free, and sound. Be careful of condensing humidity (within 10 degrees of the dew point). Substrate must be blasted and primed. Allow primer to cure completely before continuing. Please refer to the master “**Surface Preparation Guide**” for more information.

APPLICATION METHOD /SPREAD RATE

See ASTRA-CRETE KT application instruction sheet for Complete Application Instruction.

LIMITATIONS

ASTRA-CRETE KT cannot be applied as a smooth coating as this results in micro-foaming. ASTRA-CRETE KT is not available in orange peel and smooth finishes. This product is best suited for application in temperatures between 20° F and 30° F. Relative humidity levels should not exceed 75% during application and cure. 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. **ASTRA-CRETE KT is moisture sensitive during installation.**

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.

PACKAGING

ASTRA-CRETE KT is available in 5 cans, and 25- Kg pails. Flintshot is available in 25-30 Kg bags.

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TECHNICAL INFORMATION

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Cure Time @ 25°F: Recoat	12 hours
Return to Service	24 hours
Full Chemical Resistance	7 days
Application Temperature	20°C - 30°C
Mix Ratio (by volume)	3 parts resin to 1 part hardener
Pot Life - 1 gallon @25 C *	15 minutes
Adhesion to Concrete	> 400 psi, concrete fails before loss of bond
Thermal Shock	Resists intermittent spills up to 220 C
Toxicity	Sensitized individuals do not install or inhale hardener vapors

Physical Property	Test Method	Result
Thardness (Shore D)	ASTM D 2240	75
Compressive Strength	ASTM C 579	8,600 psi
Tensile Strength	ASTM D 638	2,500 psi
Impact Resistance @ 125 mils	ML D-3134	Pass
Flammability	ASTM E-684	NFPA 101 Type 1 1.06 Watts/cm ²
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ML D-3134	Pass
Flexural Strength	ASTM D 790	4,400 psi
Abrasion Resistance Taber H 10 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	35 mg loss
Coefficient of Friction Standard Slip-Resistant	ASTM D-2047	0.9
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.