

ASTRA-CRETE BDM

product data sheet



DESCRIPTION

ASTRA-CRETE BDM is a 100% solids aromatic cementitious urethane system with a broadcast aggregate. This system is typically installed at a nominal 6mm thickness. ASTRA-CRETE BDM uses a natural quartz aggregate. A topcoat of ASTRA epoxy, urethane or methyl methacrylate is applied depending on performance requirements.

BENEFITS

- VOC Compliant
- ADA Compliant
- Leed Credit Points Available
- Meets USDA, FDA and CFIA Standards
- Hygienic - Does Not Harbor Bacteria
- High Chemical Resistance
- High Abrasion Resistance
- No priming required
- Wide Service Temperature Range,-40 to100 C
- Can be installed with moisture levels up to 6 Kgs/1,000 sf/24 hrs.
- Can Be Applied To 7-14 Day Old Concrete

COLORS

Refer to the Color Selection Charts wide range of standard colors, special color matches may be available.

TYPICAL USES

ASTRA-CRETE BDM is designed to protect concrete, Polymer reinforced screeds, mild steel and water resistant plywood from chemical attack, corrosion, impact and thermal shock. It is also unaffected by freeze/thaw cycles.

- Aesthetic Considerations
- Wet Areas
- Commercial Kitchens and Restaurants
- Meat/Poultry and Dairy Processing
- Pharmaceutical Plants
- Processing Areas
- Exterior Applications

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Surface must be profiled, clean, dry, oil free and sound. It is recommended that the perimeter edges of the floor area and doorways be keyed to produce a cross section 6mm deep by 3mm wide running at 150mm away from and parallel to doorways, drains and walls. Please refer to the master "Surface Preparation Guide" for more information.

APPLICATION METHOD

ASTRA-CRETE BDM should be applied to a properly prepared area at the required thickness using a steel bladed trowel, pin-rake, "V"-notched trowel or cam rake. The freshly placed material is then spike rolled into which the proper size quartz aggregate is broadcast to excess to achieve the desired. Allow a minimum of 8 hours for the Base Coat to cure before sweeping, sanding or vacuuming. Apply the desired pigmented coat(s) to achieve the required finish. ASTRA-CRETE CF and ASTRA-CRETE TF may also be used to topcoat ASTRA-CRETE BDM systems. ASTRA-A-GLAZE NOVOLAC is also appropriate to use as a topcoat for ASTRA-CRETE BDM systems. **Refer to ASTRA-Crete BDM Application Instructions.**

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-CRETE BDM is available in pre-measured kits and in Bulk packing.

CHEMICAL RESISTANCE

Excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents.

STORAGE CONDITIONS

ASTRA-CRETE BDM must be stored dry. Do not use partial bags of aggregate. Do not allow resins to freeze. Every ASTRA-CRETE product will be shipped with a lot number on the label. The first two digits indicate the year; the second two show the month, the third two will be the day. The shelf life is 6 months from the date on the label in the original unopened container.

**ASTRA-CRETE BDM (TOPCOATS)
TECHNICAL INFORMATION**

	ASTRA-Crete KT	ASTRA-Crete CF	ASTRA-Crete TF
Cure Time @ 70°F	48 hrs	24 hrs	3-5days
Mix Ratio	3 part resin: 1 part hardener	3 Component Kit	3 Component Kit
Pot Life	15 minutes > 400 psi, concrete fails	25 minutes > 400 psi, concrete fails	15 minutes > 400 psi, concrete fails
Adhesion to Concrete	before loss of bond	before loss of bond	before loss of bond
Service Temperature	-20 to 130C (live steam)	-20 to 130 C (live steam)	-20 to 130 C (live steam)
Available Color	Beige, Black, Charcoal, Concrete, Medium Grey, Slate Grey, Tile Red	Blue, Burnt Orange, Green, Charcoal, Concrete, Grey, Dark Grey, Red, Sandstone, Cream	Blue, Burnt Orange, Green, Charcoal, Concrete, Grey, Dark Grey, Red, Sandstone, Cream

Physical Property	Test Method	ASTRA-Crete KT	ASTRA-Crete CF	ASTRA-Crete TF
Hardness (Shore D)	ASTM D 2240	75-80 D	65 D	85 D
Compressive Strength	ASTM C 579	8,990 psi	7,800 psi	7,250 psi
Tensile Strength	ASTM D 638	2,175 psi	4,200 psi	750 psi
Impact Resistance	ASTM D1709	>160 in.-lb.	>160 in.-lb.	>160 in.-lb.
Flexural Strength	ASTM D 790	5,075 psi	1,000 psi	4,400 psi
Abrasion Resistance CS17 Wheel 1000 GM Load 1,000 Cycles	ASTM D 4060	35 mg loss	10 mg loss	40 mg loss
Coefficient of Friction Standard Slip-Resistant	ASTM D 2047	(Passes ADA commendations) 0.9	(Passes ADA recommendations) 0.9	(Passes ADA recommendations) 0.9
VOC Content		0 g/l	0 g/l	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.