

ASTRA-CRETE DM

product data sheet



DESCRIPTION

ASTRA-CRETE DM is a 100% solids, aromatic, cementitious urethane system blended with graded silica and fine fillers applied at 3 mm to 6 mm to produce a self-leveling matte finish of uniform color.

BENEFITS

- VOC Compliant
- ADA Compliant
- Leed Credits Available
- Meets USDA, FDA, and CFIA Standards
- Superior Adhesion
- Superior Chemical Resistance
- Easy Maintenance
- Wide Service Temperature, -40 to 110oC
- No Topcoat Required
- 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 ASTRA-Crete DM Color Selector Guide. Special color matches may be available

TYPICAL USES

ASTRA-CRETE DM is designed to protect concrete, ASTRAmer reinforced screeds, or water resistant plywood from chemical attack, corrosion impact and thermal shock. Repeated exposure to hot oil or steam does not cause pitting, cracking or crazing.

- Chemical Processing
- Food Processing Areas
- Cook / Chill Areas
- Pharmaceutical
- Bakeries
- Cage Wash Areas
- Bottling Areas
- Sanitize / Wash Areas
- Plant Vehicle Aisles
- Mfg/Production Areas
- Warehouses

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 6 mm deep by 3 mm wide running at 6 inches away from and parallel to doorways, drains and walls. Please refer to the master "Surface Preparation Guide" for more information.

APPLICATION METHOD

ASTRA-CRETE DM should be applied to a pre-primed area at the required thickness by using a steel-bladed trowel, pin rake, "V" notched trowel or cam rake. The freshly placed material is then spiked rolled.

LIMITATIONS

Do not apply at a temperature below 10°C or above 30°C. ASTRA-CRETE DM can be slippery when oily. Do not apply to unreinforced sand cement screeds, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnasite, copper, aluminum, Polyesters or elastomeric membranes.

PACKAGING

ASTRA-CRETE DM is available in pre-measured kits and in bulk packings.

CHEMICAL RESISTANCE

ASTRA-CRETE DM has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents. Some acids may discolor or bleach the surface.

STORAGE CONDITIONS

ASTRA-CRETE DM 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 DM TECHNICAL INFORMATION

Cure Time @ 25°C Light Traffic	10 hours
Light wheel traffic	16 hours
Full Service	3 - 5 days
Heavy Duty Traffic	48 hours
Color	Refer to ASTRA-Crete DM Color Selector Chart
Mix Ratio (by volume)	
Adhesion to Concrete	>400 psi. Concrete fails before loss of bond
Pot Life - 1 gallon @ 25°C	15 minutes

PI Property	Test Method	Result
Thardness (Shore D)	ASTM D 2240	75-80
Compressive Strength	ASTM C 579	9,000 psi
Tensile Strength	ASTM D 638	2175 psi
Impact Resistance @ 3mm	MIL D-3134	Pass
Flexural Strength	ASTM D 790	5,076.3 psi
Abrasion Resistance CS17 Wheel 1000GM Load at 1,000 Cycles	ASTM D 4060	24 mg loss
Coefficient of Friction	ASTM D 2047	(passes ADA recommendations) 0.71 - Dry
Standard Slip-Resistant		0.63 - Wet
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.