

ASTRA-CRETE QDM

product data sheet



DESCRIPTION

ASTRA-CRETE QDM is a 100% solids aromatic cementitious urethane system with decorative quartz broadcast. The system is typically installed at a nominal 6 mm thickness. This should be determined by service, cleaning temperatures, severity of traffic, point impact and loadings. ASTRA-CRETE QDM uses colored or blended decorative 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
- Wide Service Temperature Range,-40 to 100 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

ASTRA-CRETE QDM is available in 15 blended and 18 solid colors and in two sizes (Q11 and Q28). Refer to Quartz Blend Selector Chart for example of typical quartz color blends.

TYPICAL USES

ASTRA-CRETE QDM 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.

- Wet Areas
- Pharmaceutical
- Plants
- Aesthetic
- Concerns
- Bottling Plants
- Commercial
- Kitchens
- Restaurants
- Exterior Applications

SURFACE PREPARATION

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

APPLICATION METHOD /SPREAD RATES

ASTRA-CRETE QDM should be applied to a properly prepared area at the required thickness using a steel bladed trowel or pin-rake. The freshly placed material is then spike rolled in to which the proper size colored quartz aggregate is broadcast to excess. Allow a minimum of 8 hours for the base coat to cure before sweeping, sanding or vacuuming. Apply the desired clear topcoat(s) to achieve the desired finish.

LIMITATIONS

This product is best suited for application in temperatures between 10°C and 30°C. A second broadcast is recommended if aesthetics are a concern. Substrate must be clean, sound and dry.

PACKAGING

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

CHEMICAL RESISTANCE

ASTRA-CRETE QDM has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents.

STORAGE CONDITIONS

ASTRA-CRETE QDM 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 QDM

TECHNICAL INFORMATION

Cure Time @ 25°C Light Traffic	8-10 hours
Light wheel traffic	16 hours
Full Service	3 - 5 days
Heavy Duty Traffic	48 hours
Color	Refer to Color Blends
Mix Ratio (by volume)	3 Component Kit
Pot Life at 25°C	15 minutes
Adhesion to Concrete	> 400 psi, concrete fails before loss of bond

Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D 2240	75-80
Compressive Strength	ASTM C 579	8,990 psi
Tensile Strength	ASTM D 638	2,175 psi
Impact Resistance	ML D-3134	Pass
Flexural Strength	ASTM D 790	5,075 psi
Abrasion Resistance	ASTM D 4060	
CS17 Wheel 1000GM Load at 1,000 Cycles		65 mg loss
Coefficient of Friction	ASTM D 2047	0.9
Standard Slip-Resistant		0.8
Orange Peel		0.7
Smooth		
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.