



TRI-METHOXANE SEVERE-DUTY MASONRY COATING

Meets Federal EPA's VOC Requirements

PRODUCTS

Division of Sierra Corporation

Technical Data

1. PRODUCT NAME

TRI-METHOXANE
SMOOTH-FINE-MEDIUM

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

TRI-METHOXANE is a coating specially formulated for masonry surfaces that are subjected to severe use. Generally, the areas where TRI-METHOXANE should be specified are on grade or near roadway surfaces. J Barrier, Type A Median Barrier, F Rail, Decorative Rail and Parapet Wall are just some of these areas. Due to the abuse of deicing salts, road maintenance equipment and everyday traffic, these areas require a coating that will protect the concrete under the most harsh conditions.

TRI-METHOXANE is also an excellent coating for masonry buildings, block, brick or precast panels or any above grade vertical surface.

Due to a fine blend of TK-290 Siloxane and Methyl type acrylic resins, TRI-METHOXANE will help stop wind driven rain on even the most porous of block buildings (must follow manufacturers directions).

TRI-METHOXANE offers the following advantages over standard coatings:

- Superb protection from deicing chemicals.
- Superior penetration.
- Long term color retention.
- Helps stop wind driven rain.

- High adhesive qualities.
- Excellent self cleaning properties (smooth only).
- Early water repellency.
- Remains whiter longer (when specified for reflectance).

4. TECHNICAL DATA

TRI-METHOXANE is a blend of proprietary resins which include methyl acrylics and siloxanes.

TRI-METHOXANE is available in smooth, fine or medium textures that match the appearance of the Tri-Sheen Concrete Surfacers.

TRI-METHOXANE has been field tested under Minnesota Department of Transportation research project, SPECIAL SURFACE FINISH APPLIED TO CONCRETE J BARRIER.

Locations:

T.H. 36 1/4 mile east of White Bear Ave. W.B.L. M.P. 7.4 – 7.5.

I-494 1/8 mile east of Concord Ave. (52) W.B.L.M.P. 64.7 – 64.8.

Results show that out of the eleven various products tested, the TRI-METHOXANE has visually outperformed all others by:

- Staying whiter longer.
- Adhering better.
- Resisting scaling and delamination.
- Staying cleaner.

In conclusion, TRI-METHOXANE has endured the harsh deicing chemicals that are normally used for traffic control. No scaling or delamination has occurred. Therefore the concrete has been successfully protected.

The following test data supports the visual appearance that the concrete is being protected:

Wiss, Janney, Elstner NCHRP 244 Report:

Series II Test	*TK-290	Minimum Requirement
% Reduction in water absorption	86.0	75.0
% Reduction in Cl ion intrusion	*TK-290	Minimum Requirement
	87.9	75.0

Law Engineering NCHRP 244 Report:

% Water Vapor Transmission	*TK-290	Control
	111.91	55.7

Series IV Test	*TK-290	Control
Northern Climate	97.6	0
Southern Climate	97.6	0

Freeze Thaw Durability ASTM C666.	*TK-290	Control
Relative Dynamic Modules of Elasticity	96.2	69.0

C.T.L. Structural/Architectural Engineering Consulting and Materials Technology:

Scaling Resistance	Test	Rating
ASTM C672	A	0+
At 75 Cycles	B	0+
	C	0±
Average		0+

*TRI-METHOXANE IS PRODUCED USING TK-290 AT PERCENTAGES EQUIVALENT TO THE ABOVE TEST DATA.

Physical Properties:

Nonvolatile by weight	51.0%
Nonvolatile by volume	33.3%
Weight per gallon	9.91%
Viscosity	60-62 Krebs Units @ 77° F
Initial Gloss @ 60°	3% Flat
Reduction	None, do not reduce
Dry Time	To touch: 15-30 min
Recoat	45-60 min
Cure	24 hours
Dry Film Thickness	2-3 mils total
Clean Up	Xylene

Coverage Rates:

TRI-METHOXANE:	
Smooth Texture	125-150 SFPG
Fine Texture:	100-125 SFPG
Medium Texture:	75-100 SFPG

TRI-METHOXANE
Concrete and Masonry Coatings

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ALL TEST DATA AND COVERAGE RATES ARE BASED ON TRI-METHOXANE SMOOTH. COVERAGE RATES ON FINE AND MEDIUM WILL VARY.

- A.I.M. Category: Waterproofing Sealers and Treatments
- A.I.M. Definition: A coating formulated and recommended for application to a porous substrate for the primary purpose of preventing the penetration of water.
- V.O.C. Content Limit: 600 grams per liter

5. APPLICATION PROCEDURES
Preparation:

The preparation of the surface is critical to the long term performance of TRI-METHOXANE. All surfaces must be free from all form oils, waxes, curing compounds, efflorescence, paint or previous coatings. All new concrete should be either water cured or cured using a dissipating curing compound such as TK-2519 DC WB. All new concrete should be allowed to dry for approximately 28 days.

All surfaces should be water blasted using a minimum 3000 PSI spray. If previous coatings are still present or if the surface still appears to be sealed, a light sandblast or brushblast may be required.

All surfaces to be coated must be in dry, sound, stable condition.

Application:

TRI-METHOXANE may be applied using brush, roller or spray. If spray application is to be used for the smooth, back rolling should be done. If a texture is to be used, the first coat should be of the smooth product sprayed and backrolled or just rolled. The second coat would be of either the fine or medium depending upon the texture desired. The texture coat should be applied by roller or by spray. If sprayed, a texture hopper or grout pump should be used.

TRI-METHOXANE should always be applied as a two coat system. The method of coats should be applied as follows:

<u>First Coat</u>	<u>Second Coat</u>	<u>Finish Desired</u>
Smooth	Smooth	Smooth
Smooth	Fine	Fine
Smooth	Medium	Medium

Avoid application when rain is forecast for a period of 48 hours after application, or during windy conditions.

A test area of 50 S.F. should be prepared, apply product to the prepared surface verifying the surface qualification, adhesion and for color approval.

Clean all tools and equipment immediately with zylol.

6. AVAILABILITY:

TRI-METHOXANE is available in 5 or 55 gallon containers. Colors may be chosen from the TK color selection or custom made to the customer's request. Please submit color standards for pricing.

TRI-METHOXANE is offered in three grades of texture: smooth, fine or medium.

7. LIMITED WARRANTY

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8. TECHNICAL SERVICES

The TK office offers assistance with specifications, performance test data and field services.

9. FILING SYSTEMS

Information Handling Services
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Oak Park, MI 48237

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