



VEXCON
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974
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CERTI-VEX ENVIO[®] TEX VOC & CERTI-VEX ENVIO[®] SMOOTH VOC MASONRY TEXTURE PAINT AND WATERPROOFER

DESCRIPTION

CERTI-VEX ENVIO TEX VOC and **CERTI-VEX ENVIO SMOOTH VOC** are manufactured from solvent-borne modified acrylic resins with selected pigments and fillers including portland cement, to produce a decorative high-build acrylic waterproof coating. This product provides an attractive, breathable, protective coating that enhances the aesthetic appearance of vertical concrete, masonry, block, wood and primed metal surfaces.

Provides excellent adhesion and years of weathering and waterproofing protection from the elements. The product's one coat application saves time and money over typical two and three coat systems.

BENEFITS

Performance

- Resistant to UV light, molds and mildew
- Withstands 100 mph wind driven rain
- Covers surface blemishes, cracks and surface imperfections
- Excellent adhesion
- Moisture resistant prevents blistering, peeling, cracking and staining
- Bridges hairline cracks
- Exceeds all the performance requirements of Federal specifications TTC-555B and TTP-1411 for waterproofing
- Apply down to 20^o F (6^o C)
- Performance warranty

Application Advantages

- One coat application
- Apply over highly alkaline surfaces
- Apply to fresh or damp concrete and masonry surfaces
- Apply above and below grade
- Suitable for interior and exterior applications
- Apply in the presence of hydrostatic pressure

Money Saving

- No primer required
- Fast track one coat application
- Outlasts and out performs conventional paints and coatings
- Lower maintenance costs

Design Options

- 30 attractive colors to choose from
- Custom color matching
- Available in smooth, sand or fine, medium or coarse textures

RECOMMENDED FOR

Provides decorative, functional protective coating for:

- | | | |
|--------------------|--------------------------|------------|
| • Retaining Walls | • Bridges | • Tunnels |
| • Precast Concrete | • Tiltup Panels | • Ceilings |
| • Stucco | • Remodeling/Restoration | • Columns |
| • Roof Members | • Cinder Block | • Parapets |
| • Median Barriers | • Sound Walls | |

SURFACE PREPARATION

- Surfaces should be cleared of all foreign materials such as oil, grease, asphalt, mud and powdery substances using one of Vexcon's quality cleaners; **StarSeal[®] Masonry & Brick Cleaner**, **Certi-Vex Stripper Vertical**, or **Certi-Vex Super Degreaser & Cleaner**.
- On old or existing masonry or concrete surfaces where there is loose scaly residue, sandblasting or wire brushing may be necessary.
- Small cracks, voids and blemishes may be filled by troweling Certi-Vex Envio Tex or **Certi-Vex Patch RTU** with a large flat bladed spatula.
- Large holes and damaged areas should be repaired using one of Vexcon's high quality vertical repair mortars.
- Plywood, wood and metal surfaces should be primed with **Certi-Vex AC 1315** or **StarSeal 1315**.
- For a complete high performing waterproof system apply a first coat of **Certi-Vex Block Fill** to masonry and concrete block to fill in the pores and capillaries and provide a uniform, sealed surface.

APPLICATION

- Before applying follow the directions for surface preparation above.
- Certi-Vex Envio Tex or Envio Smooth may be applied to damp concrete or masonry surfaces. Apply by ½" to 1" roller depending on surface, indoor or outdoor or spray (see equipment section).
- Roller should not be permitted to dry. Keep roller wet with paint. Lay off topcoating, back roll in one direction only with wet roller, taking roller off the wall with each stroke to prevent swirls and W's.
- Use 1" nap roller to achieve a pin hole free surface. A single continuous coat will provide waterproofing properties, but it is always suggested to use a thinner second coat to even out application.
- Material must be stirred or agitated thoroughly before use. Shaking is not sufficient, mechanical mixing must be used.
- When spraying, particular care must be taken with spray overlap area. Proper technique for spraying calls for a pattern one half the diameter that is used for typical masonry coatings.
- Certi-Vex Envio Tex/Smooth VOC may be applied to damp or green concrete as long as there are no slick water surface spots visible.
- Do not apply if rainfall is imminent or on frosted or frozen surfaces. Apply above 45 ° F (7° C). May be applied below 45° F (7° C), please contact Vexcon for details.
- Do not apply on highly windy days. Be especially careful of over spray.
- The material can be thinned slightly with paint thinner and applied by brush or roller, however, spraying is recommended.
- Application at a rate of 50-80 sq.ft./gal (1.25-2.0 m²/L) will provide an average dry film thickness of 13-18 mils (330-460 μm). Be careful to match color and texture when re-coating (see coverage chart).

PACKAGING

Certi-Vex Envio Tex/Smooth VOC is available in 50-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

COVERAGE/ESTIMATING

Decorative, Weather Resistant, Acrylic Coating For Masonry & Concrete Manufactured From Specially Formulated Proprietary Resins				
	Certi-Vex® EnvioSmooth VOC	Certi-Vex® EnvioTex VOC	Certi-Vex® EnvioSmooth Emulsion	Certi-Vex® EnvioTex Emulsion
System	Modified Acrylic Solvent	Modified Acrylic Solvent	Modified Acrylic Emulsion	Modified Acrylic Emulsion
Meets VOC Concrete Protective Coating	yes	yes	yes	yes
VOC (G/l)	<296	<296	<180	<162
Colors	Polar White/ White Tint Base and 30 standard colors	Polar White/ White Tint Base and 30 standard colors	Polar White/ White Tint Base and 30 standard colors	Polar White/ White Tint Base and 30 standard colors
Textures	Smooth	Fine, Medium and Sandy, Coarse	Smooth	Fine, Medium and Sandy, Coarse
Reducer	Paint Thinner	Paint Thinner	Water	Water
Tinting	White/Tint Base to a wide variety of colors	White/Tint Base to a wide variety of colors	White/Tint Base to a wide variety of colors	White/Tint Base to a wide variety of colors
Volume Solids	53%	59%	53%	58%
Weight Solids	75%	76%	67%	73%
Block, Stucco				
1 Coat Application	60-80	40-60	60-80	40-60
2 Coat Application				
1st Coat	120-160	80-120	120-160	80-120
2nd Coat	120-160	80-120	120-160	80-120
Final Dry Film Thickness DFT	10-14 mils.	16-24 mils.	10-14 mils.	15-23 mils.
Smooth Concrete and Brick				
1 Coat Application	70-90	50-70	70-90	50-70
2 Coat Application				
1st Coat	140-180	100-140	140-180	100-140
2nd Coat	140-180	100-140	140-180	100-140
Do not apply greater than recommended for each coat.				
Final Dry Film Thickness	9-12 mils.	13-18 mils.	9-12 mils.	13-18 mils.

SPECIFICATIONS/COMPLIANCE

This product has been tested according to the most current test procedures in the industry. Testing includes water absorption/repellency ratings, penetration and salt spray resistance. Test reports are available upon request.

- VOC – <400 grams/liter or <3.35 #/gallon Meets:
 - US EPA AIM - Waterproofing Sealers & Treatments
 - OTC - Waterproofing Concrete/Masonry Sealer
 - LADCO - Waterproofing Concrete/Masonry Sealer
 - Canada - Waterproofing Concrete/Masonry Sealer
- Federal Specification TTC-555 B
 - Flexibility-Pass
 - Moisture resistance-Pass
 - Accelerated Weathering-Pass
 - Wind driven (100 mph) rain-Pass
 - Breathability, perms 1.5
- Federal Specification TTP-1411
 - Waterproofing concrete and masonry above and below grade-Pass
- Mildew Resistant-This coating contains agents which inhibit the growth of mildew
- ASTM C-309, Type II, Class A & B.
- CSI reference: 09 97 23 - Concrete and Masonry Special Coatings

SAMPLE ARCHITECTURAL SPECIFICATION

09 97 23: Basis of design: Concrete will be coated with Certi-Vex Envio Tex/Smooth VOC as manufactured by Vexcon Chemicals, a VOC complaint, modified acrylic texture paint that meets the requirements of Federal Spec. TTC-555B and TT-P-001411. Surface will be coated at 50-80 sq.ft/gallon in accordance with manufacturer's recommendation in product data sheet VW101 to provide a decorative, water resistant and weatherproofing coating.

SHELF LIFE

If properly stored in its original sealed container, one year from date of manufacture. Rotate your stock.

SPRAYING EQUIPMENT INFORMATION

Pump	Graco Model 231-300
Gun	Graco Model 235-490
Tip	3/8 in. dia. round as specified below
Fine	167-329 with disk 235-579
Medium	167-330 with disk 235-580
Coarse	167-331 with disk 235-581
Fluid Hose	3/4 in. (19mm) ID
Air Hose	3/8 in. (10mm) ID
Air Pressure	80 lbs minimum 25 CFM

Spraying Smooth Only

Electric	Graco Ultra 1000
Air	Graco Bulldog 30:1
Gas	Graco 5000

Spray equipment must be cleaned and maintained in accordance with manufacturer's directions. Consult Vexcon for additional recommendations on spraying equipment and technique.

SPECIAL NOTES

- All performance specifications and water-proofing characteristics are based on pinhole free applications.
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.

VITAL STATISTICS

- Flash Point 122°F (50°C)
- Boiling Point 313-396°F (156-202°C)
- Autoignition Temp 450°F (232°C)

Use foam, carbon dioxide and dry chemicals as extinguishing media for fires. Water may be used to reduce the rate of burning and to cool containers.

WARRANTY

Many applications have been in place for over ten years. Material applied according to manufacturer's instructions over suitably cleaned surfaces at the proper film thickness is covered by a five-year material replacement warranty. Contact Vexcon for complete warranty information.

PHYSICAL PROPERTIES

- Weight Solids 75-76%
- Dry Time approx. 4 hr.
- Wt/gal 10-12 lbs.

HEALTH AND SAFETY

- Use of respirators is mandatory when using this product in confined areas.
- Use only with adequate ventilation.
- If swallowed, do not induce vomiting.
- Use of gloves, goggles and other protective clothing is advised when using this product.

Vexcon MSDS VW101 is an integral part of the safety and application of this product. Before using product, obtain a copy from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

Additional product information, technical and customer service is available by contacting Vexcon Chemicals directly, or our distributors.

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WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty is IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES.

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