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CERTI-VEX® AC 309

ASTM C-309 • ACRYLIC CURE & SEAL

NON-YELLOWING • FAST DRY • ECONOMICAL

DESCRIPTION

CERTI-VEX AC 309 is a low VOC fast drying curing, sealing, hardening and dust proofing clear coating that provides weather and chemical resistance to a wide variety of concrete surfaces. The product is ideal for use on new or existing exterior and interior above and below grade architectural concrete where a durable, slip resistant and low gloss appearance is desired.

Certi-Vex AC 309 features Vexcon's breathable technology which allows moisture vapor to pass through rather than becoming trapped, preventing whitening, peeling and flaking.

BENEFITS

- Non-Yellowing. Surface remains clear
- Fast drying
- Provides for complete development of concrete's wear resistance and strength properties
- Apply to damp surfaces without whitening or loss of adhesion
- Seals and hardens surface reducing clean up and maintenance
- Can be applied at temperatures as low as 20°F/-6°C
- Economical
- Protects against rain, sun, freezing temperatures, alkali and common industrial chemicals, oil, grease, de-icing salts, cleaners, airborne soot, dust and other pollutants
- Prevents efflorescence, dusting and spalling
- Vexcon breathable technology
- Surfaces look newer and brighter
- Re-coatable

RECOMMENDED FOR

Good protection for new and existing concrete floors where enhanced appearance, protection, and sealing is desired.

SHORT SPECIFICATION

[03 35 00] [03 39 00]: Basis of design, Low VOC solvent based non-yellowing acrylic curing and sealing compound. VOC content less than 350 grams/liter shall conform to ASTM C-309 Type 1 Class A&B as manufactured by Vexcon Chemicals.

APPLICATION

- Product is supplied at the proper consistency for application. Dilution will reduce efficiency and gloss.
- Thoroughly mix before applying.
- To improve non-slip profile use **Certi-Vex Grip**. Note; product forms a surface film quickly depending on temperature, humidity and wind conditions therefore, for best results follow all equipment and application instructions carefully.

If applying by sprayer:

- Apply by low-pressure commercial grade solvent resistant sprayer with neoprene fittings. (Do not use garden or form oil sprayers).
- The sprayer must be clean and dry. If cleaning with solvents is required, use **Certi-Vex Equipment Cleaner**. Clean sprayer as directed between applications to ensure best results.
- If spraying and back rolling, the best application is to spray enough material so that a second person can immediately back roll following the spray applicator. Follow roller instructions below. Caution; do not delay the back roll as the area will dry quickly.

If applying by roller:

- For best results use Vexcon's **EvenFlow Applicator** or ¼ " nap mohair roller.
- Use a roller pan to take off excess product. Do not dip and roll or pour and spread.
- Do not over-work material; apply in a single lapping motion. Do not roll area back and forth; this can cause the film to break and product to become stringy.
- Do not run roller dry, keep a wet edge and do sections small enough to roll only once over wet material.
- To aid in keeping roller wet and fluid, dip the roller as needed in a roller pan of Certi-Vex Equipment Cleaner. Remove excess cleaner from the roller before continuing application.
- Do not roll over dry material this can cause the product to become stringy.
- Over rolling or using incorrect rollers will cause bubbles to form in the coating. If this occurs on final coat corrective procedure is to apply a light coat of **Certi-Vex Coating Repair** over the area. This will recast (heal) the coating and eliminate the bubbles. If this occurs on first coat, follow corrective procedure above then apply final coat.
- Material should not be allowed to puddle.
- Do not allow sealed area to become wet with water until completely dry. See dry times.
- Protect all surrounding areas from over spray.
- The sealer can be applied to damp surfaces; however, do not apply over puddled water.
- A uniform appearance requires even coats leaving no gaps. Some areas may be more porous than others; these areas may require additional coats to even out the appearance. Caution: Do not over-apply material. See special notes section.

CURING AND SEALING NEW CONCRETE

- Apply Certi-Vex AC 309 to still damp freshly finished concrete as soon as the surface cannot be marred, and water sheen disappears. Do not apply over freestanding water.
- If application is delayed, concrete must be kept wet (preferably by water spray mist) until product can be applied.
- If concrete is allowed to dry, use **Certi-Vex Etch & Efflorescence Remover** to clean and prepare the surface.
- Apply first coat at 300 sq.ft/gal (7.5 m²/L). A second coat is recommended for long term durability. See Second Coat section.

SURFACE PREPARATION EXISTING CONCRETE

The concrete surface must be properly repaired, structurally sound and cleaned. Use Vexcon's surface prep and cleaning products to properly clean the surface prior to application.

- To remove coatings such as epoxies, sealers and curing compounds use **Certi-Vex Concrete Stripper**.
- The concrete should be cleaned with **Certi-Vex Super Degreaser & Cleaner** to remove any dust, dirt or debris and allowed to dry for a minimum of 24 hours after cleaning.
- To remove efflorescence or to etch the surface for improved material penetration use **Certi-Vex Etch & Efflorescence Remover**.
- There should be no freestanding water.
- Large cracks should be repaired using **Powercoat Epoxy Joint Sealant**.

SEALING EXISTING CONCRETE

- Prior to application a test area must be performed to determine proper application rate and required surface preparation.
- To determine that the concrete is penetrable perform a water absorbency test by applying water to a representative portion of the prepared concrete floor. A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.
- If required, use Certi-Vex Etch & Efflorescence Remover to improve sealer penetration. Application to still damp surfaces is acceptable however, free standing water must be removed.
- Apply at 400-500 sq.ft. /gal (10-12.5 m²/L) on hard non-porous floors and 250-300 sq.ft. /gal (6.2-7.5 m²/L) on porous floors.

SECOND COAT

Apply after 1st coat has dried at 400-500 sq.ft. /gal (10-12.5 m²/L).

TOPCOATS AND ADHESIVES

Certi-Vex AC 309 cured concrete can be topcoated with a variety of paints, adhesives and mastics a minimum of 28 days after application. It is strongly suggested that a test area be applied prior to coating the entire surface, since products can adhere to concrete in varying degrees. Check with manufacturer of the topcoat for any precautionary and compatibility information.

MAINTENANCE

Spills should be removed promptly and cleaned. Sealed areas should be cleaned regularly. Use Certi-Vex Super Degreaser & Cleaner for all cleaning requirements. Periodic reapplication may be required as the sealer wears off.

SPECIAL NOTES

- To assist in application note, 200 sq.ft. /gallon is equal to the thickness of a sheet of paper.
- Will tend to show rubber burns or tire marks.
- Will cause bleeding of bituminous surfaces.
- May enhance mottling of colored surfaces.
- Not gasoline resistant, use one of Vexcon's **High Performance Coating** products.
- Application of more than two coats is not recommended.
- Over application may lead to surface discoloration and improper sealer performance.
- Do not apply more material per square foot than specified.
- Prior to using this product, it is recommended to review Vexcon's Acrylic Sealer Application Guide for Concrete, Technical Note TN191, available at vexcon.com.
- Can apply when surface temperatures are 20°F - 85°F/ -6°C - 29°C, when below or above these ranges review Vexcon's Cold and Hot Weather Application Guides.
- Shelf Life: If properly stored in its original sealed container, three years from date of manufacture. Rotate your stock.
- For use by experienced contractors
- Storage/ Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care should be taken to keep dirt, water and contaminants away from the opening of containers.
- Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- 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.

PACKAGING

Certi-Vex AC 309 is available in 55-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

VITAL STATISTICS

- Flash Point (TCC) 1.4° F (-17°C)
- Boiling Point (706 mmHg) 134 F (56°C)
- Autoignition Temp 869° F (465°C)
- Extinguishing Media Foam, dry chemical, CO₂, water may be used to reduce the rate of burning and for cooling containers.

PHYSICAL PROPERTIES

- Wet appearance Water White
- Dry appearance Clear
- Dry to touch 30 minutes
- Dry - tack free 60 minutes
- Foot traffic 1 hour
- Vehicle traffic Overnight

Note: All calculations based upon 68-77°F (20-25°C).

Lower temperatures and relative humidity will extend dry times.

SPECIFICATIONS/COMPLIANCE

- ASTM C 309, Type 1, Class A&B
- AASHTO M-148, Type 1, Class A&B
- Meets ADA and ASTM D 2047 non-slip
- USDA approved
- VOC Content: <350 grams/liter or < 2.92 #/gal
Meets the following clean air standards:
 - US EPA AIM - Concrete Curing and Sealing Compounds
 - OTC - Concrete Curing Compounds
 - LADCO/MRPO - Concrete Curing Compounds
 - CEPA/EC- Concrete Curing Compounds
 - CARB - Concrete Curing Compounds
 - SCAQMD - Rule 1113 - Concrete Curing Compound for roads & bridges only (not for use on curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas)
- CSI reference: 03 35 00, 03 39 00

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 CS121 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product obtain a copy of the MSDS from your distributor or visit vexcon.com.

CONTACT US @

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

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WARRANTY

LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon's published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option 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 OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.

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