

# AQUA-X® 11

DECEMBER 2018

**PRODUCT OVERVIEW**

AQUA-X® 11 is designed for use by professional contractors and DIYers who demand excellent products with high performance. AQUA-X 11 is a water-based, penetrating silicone water repellent that provides a moisture resistant barrier on masonry and other concrete surfaces.

**FEATURES AND BENEFITS**

<b>Low VOC</b>	✓ Meets all 50 state requirements
<b>Professional results</b>	✓ <b>Natural</b> finish ✓ Professional grade, penetrating water-based silicone water repellent ✓ Industrial grade UV resistance ✓ Fast beading action ✓ Excellent water repellency ✓ Protects sealed surfaces from moisture for easier maintenance ✓ Industrial grade, long-lasting protection ✓ Reduces efflorescence and concrete dusting ✓ Freeze/thaw protection, reduces spalling ✓ Seal horizontal or vertical surfaces
<b>Easy application</b>	✓ Water-based, one coat application ✓ Easy to use
<b>Breathable</b>	✓ Allows the surface to breathe; does not trap moisture

**PHYSICAL DATA**

Product Type:	Water-based silicone
Finish:	Natural
Components:	One
Curing Mechanism:	Air dry
Coverage:	Coverage up to 600 square feet per gallon, depending on the surface porosity and application method
VOCs:	9 g/L
pH	4.9
Flashpoint:	>100 °C (>212 °F)
Shelf Life:	Best used by 12 months from the date of production
Dry Time:	1-2 hours after application

Use this product on the following surfaces:

Surface	AQUA-X 11
Bare Concrete	✓
Concrete Block	✓
Clay Pavers	✓
Decorative Concrete	✓
Concrete Brick Pavers	✓
Grout	✓
Faux Stone	✓
Natural Stone	✓
Specialty Concrete*	✓

\*Wetcast and specialty aggregate (exposed aggregate, shells, glass, etc.) should be treated like natural stone.

Refer to the Safety Data Sheet for more technical detail.

**TESTING DATA**

Water Loss in Rilem Tubes

Time (hours)	ml
2	0.0
4	0.0
24	0.2

**APPLICATION PROCESS**
**1. PREPARE**

**Clean the surfaces thoroughly.**

The surface to be treated should be properly cleaned before any application of AQUA-X 11. The surface should be free of dirt, oil, contaminants, and any other substance that could interfere with the sealer penetrating the surface as intended. AQUA-X 11 should not be applied to any surface that has been modified with the addition of any admix or post treatment. If stain is to be applied to the surface, it should be applied prior to sealing with AQUA-X 11.

Bare Concrete: New concrete must be cured a minimum of 28 days. Other curing compounds may not be compatible. Concrete surfaces should be clean, free of dirt, oil, grease and other contaminants. Pressure washing with 2,000 psi pressure cold water may be necessary. On older concrete surfaces; sandblasting, shot blasting or high-pressure cold water may be used. Chemical cleaning or high-pressure hot water may also be used. Rinse thoroughly after chemical cleaning. The surface pores must be opened up sufficiently to allow immediate penetration of AQUA-X 11. Substrate should have a pH between 6-10.

**2. TEST**

**Perform a small test area** (at least 2 sq. ft.) using the product to ensure suitability and the desired results prior to full application. Test for application coverage rate. Use the same preparation, equipment and conditions expected during the entire application. Due to the wide variety of substrates, preparation methods, application methods and environments, the customer should test the product in an inconspicuous spot for penetration and compatibility prior to full application.

**3. APPLICATION**

**Ensure proper surface conditions.** Prior to application, the surface should be completely dry for best results. The surface temperature should be between 30-120° F (-1-49° C), and it should be maintained for 12 hours from the start of application. If freezing conditions exist before application, let the surface thaw. The water carrier may freeze at low temperatures or evaporate in hot conditions. Both conditions impair penetration and results. Do not apply if rain is expected within 3 hours. Do not dilute or alter this product.

**CONTACT INFORMATION:** Black Diamond Coatings, Inc. 8511 Sunstate St., Unit 102, Tampa, FL 33634.

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**Use the proper equipment.**

For large horizontal surfaces, we recommend a high-pressure pump-up or battery-type sprayer with a 0.5 GPM fan-tip to produce a proper spray pattern. Alternatively, a 3/8" to 3/4" nap roller can be used.

**Generally, apply one coat of AQUA-X 11** with low-pressure spray equipment (15 psi), or with a paint roller. Use a fan type spray nozzle for best uniform results. Avoid atomization of material. On vertical surfaces, apply the material from the bottom of the wall upwards spraying so that it will run down the surface at least six inches below the spray pattern. If a second coat is required, much less material will be needed. When using on a vertical surface, use a non-linting cloth to remove excess product in a smooth manner following application. On horizontal surfaces, saturate in a single application. Use enough material to keep the surface wet for 3-4 minutes before AQUA-X 11 completely penetrates the surface.

**Caution:** Smooth or back roll any product that puddles on the surface. Dense surfaces will only require a single application. Use enough sealer to completely wet the surface without creating drips, puddles or rundown. Do not over apply. Typically, the surface can be reopened to traffic in one hour, if the temperature is at 72°F (22°C) or above. Surface should be visibly dry. AQUA-X 11 reaches optimal water-repellent properties in 72 hours after application.

**4. CLEANUP**

Place any unused sealer back into original container to store for future use. Clean equipment thoroughly until free of sealer residue. Sealer will stain clothing but can be removed from skin with a mild cleaner.

**Store and handle properly.**

Do not let product freeze. If product freezes, do not use and dispose of properly. **Do not** store in areas where temperatures are above 90° F (32° C) or in direct sunlight. Storing at higher than suggested temperatures will greatly reduce shelf life.

Please note: Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**5. MAINTAIN**

**Remove oil and other fluids from the sealed surface** as soon as possible using a mild cleaner. If the treated surface becomes contaminated with dirt, dust, pollen, or other substances, it will impede the visual water beading effect. Simply pressure wash the surface to remove the contaminants and the product will continue to repel moisture. Generally, a light pressure wash is all that is required. If a cleaner is needed, we recommend using a mild cleaner.

Do not use harsh chemicals (e.g., paint thinners, strippers, solvents) on the sealed areas. **NOTE:** If desired, it is possible to apply an epoxy coating or paint to the surface after applying AQUA-X 11. However, the surface will typically not accept a stain or other sealer due to its repellency properties.

**CUSTOMER CARE**

We pride ourselves on being available to assist with product and job-related questions, including application instructions. Call 800-270-4050 or visit our website at [www.BlackDiamondCoatings.com](http://www.BlackDiamondCoatings.com) for additional product information.

**LIMITED WARRANTY**

Black Diamond Coatings, Inc. (BDC) warrants this product to be free of defects when it is manufactured and shipped. All recommendations, information and technical data are based on the research of BDC and that of others and are believed to be accurate and reliable. However, the accuracy and completeness are not guaranteed because we cannot cover every scenario, including surfaces, conditions and application methods. Where permitted by law, BDC makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. User shall test the product on a small inconspicuous area to ensure desired results are achieved using the same conditions and equipment as expected during the entire application. User shall rely on his/her own knowledge and testing to determine the suitability of the product for a particular purpose and assume all risks and liability in connection thereto. Acceptance and use of this product absolves BDC from any other liability, from whatever source, including liability for special, indirect or consequential damages, and the liability of BDC shall not exceed the price of this product. A proof of purchase will be required for any claim of a defective product. Replacement of any defective product shall be the buyer's sole remedy under this warranty. This warranty may not be modified or extended by representatives of BDC or its distributors.