

# Water Shield H<sub>2</sub>O

Water Repellent  
 Item # 161

**USE:**

*ICT Water Shield H<sub>2</sub>O (161)* is a breathable, water-based, penetrating, water-repellent designed to be used on natural stones, pavers, concrete, and other properly prepared vertical or horizontal masonry surfaces. *Water Shield H<sub>2</sub>O (161)* acts as a protective shield against staining, simplifies maintenance & cleaning, and deterioration of the substrate caused by water presence & contaminants carried by water. However, *Water Shield H<sub>2</sub>O (161)* does not change the color characteristics of the substrate being treated. *Water Shield H<sub>2</sub>O (161)* is also available in a stain resisting blend, *Water Shield H<sub>2</sub>O with Stain Guard (160)*.

**DESCRIPTION:**

*ICT Water Shield H<sub>2</sub>O (161)* water-based, water-repellent contains a combination of silane and siloxane to achieve a breathable moisture barrier to most concrete, masonry, and roof tile surfaces. The active ingredients penetrate the pores and capillaries in porous stone and concrete surfaces up to ¼ inch or more depending on the porosity and moisture content at the time of application. *Water Shield H<sub>2</sub>O (161)* reacts with the silica in the substrate, in the presence of UV light and atmospheric moisture. This reaction forms strong and permanent bonds beneath the surface of the substrate. The chemical bonds formed in this process allow the product to become an integral part of the substrate and provide long term water repellent protection. Water molecules are prevented from penetrating into the substrate but water vapors are free to migrate to the surface and evaporate.

**FEATURES & BENEFITS:**

- ◆ UV STABLE
- ◆ WATER VAPOR PERMABLE
- ◆ INVISIBLE, NO CHANGE IN APPEARANCE
- ◆ EXCELLENT ABSORBANCY DUE TO SMALL MOLECULAR STRUCTURE
- ◆ PREVENTS CHLORINE ION INTRUSION
- ◆ EFFLORESCENCE RESISTANT
- ◆ RESISTANCE TO ALKALI ATTACK
- ◆ RESISTS CHLORIDE SALTS
- ◆ V.O.C. COMPLIANT

**SURFACE PREPARATION:**

Remove dust, dirt, grease, oils, efflorescence, wax or any other foreign matter that might block or interfere with product penetration. Refer to *ICT Total Klean (700)*, *Total Prep (720)*, and *Total Etch and Clean (740)* TDS sheets for additional surface preparation. Chemicals or other cleaning compounds used to facilitate the removal of the before mentioned foreign materials must be thoroughly removed before applying the water repellent. Allow mortar to dry at least 3 days before application. Test a small area of surface before starting general application to assure desired results and coverage rates.

**CHARACTERISTICS & TECHNICAL DATA**

|                               |                             |
|-------------------------------|-----------------------------|
| Weight/gal....                | 8.24 lbs                    |
| V.O.C. (Low Solids Coating)   | < 25 g/L                    |
| Solids ASTM 5095....          | 8%                          |
| Active content....            | 10%                         |
| Active substance....          | Silane/siloxane             |
| Recoat....                    | Wet on wet                  |
| Return to service....         | 24 hours                    |
| Heavy/Vehicular traffic....   | 48 hours                    |
| Appearance wet....            | Milky white                 |
| Appearance dry....            | No color                    |
| Coverage....                  | 75—300 sq. ft.              |
| Clean up ....                 | Soap and water              |
| Installation Surface Temp.... | Min 45° F                   |
| Shelf life....                | 2 years in sealed container |

(cont'd on reverse)

**ICT Corporation**  
 2410 McJunkin Road \* Lakeland, FL 33803  
 (Nationwide): 888-296-5236 \* (Local): 863-665-8787 \*(Fax): 863-666-2768  
 (Email): [info@innovativeconcrete.com](mailto:info@innovativeconcrete.com)  
[www.innovativeconcrete.com](http://www.innovativeconcrete.com)

All Innovative Concrete Technology Corp. products are manufactured with the finest raw materials. Shelf life is 2 years from the date of manufacturing when maintained in protected storage of 50°F to 90°F. It is the applicator's responsibility to determine the appropriate use of the product. All recommendations and suggestions are made without warranty, express or implied, since conditions of use are beyond ICT's control. ICT Corp. disclaims any liability incurred in connection with the use of these data or suggestions.

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## APPLICATION:

**ICT Water Shield H<sub>2</sub>O (161)** is a ready-to-use product. It requires no mixing or diluting. Mask to protect any surface near application area that treatment is not desired. Use a brush, roller, airless, or pump sprayer with a fan or cone type tip to apply to surface. On a **clean, cool, dry surface**, apply **Water Shield H<sub>2</sub>O (161)** making sure to use enough to keep the surface uniformly wet for 1-3 minutes prior to penetration. Overlap spraying applications to ensure 100% coverage. Any residue that does not soak into the substrate within 15-20 minutes must be manually removed using towels, mops, etc. Vertical surfaces should be treated from the bottom up. **Water Shield H<sub>2</sub>O (161)** will begin to repel water within 2-3 hours, but will continue to cure for up to 72 hours. Note: **Water Shield H<sub>2</sub>O (161)** must be applied to a **cool, dry surface**. If the substrate is in direct sunlight or is excessively hot, hydrate the surface and allow to dry. This will lower the surface temperature and allow for more **Water Shield H<sub>2</sub>O (161)** to soak into the substrate.

**ALWAYS APPLY A TEST AREA FOR BEST RESULTS.**

## LIMITATIONS:

Do not proceed with an application of water repellent when rain and or temperatures below 45°F are predicted within 4 hours after application, when substrate is frozen, or when surface temperature is less than 45° F or higher than 100° F. Do not proceed with application unless surface is thoroughly dry. Not intended for below-grade waterproofing. Residue will remain on non-porous surfaces such as metal, glass, and painted surfaces.

## COVERAGE:

Coverage will vary depending on porosity and absorbency of surface. *Approx. 75—300 sq. ft. per gallon*

## CLEAN UP:

Soap and warm water.

## STORAGE:

Store in cool dry place. Keep tightly sealed when not dispensing. Published shelf life assumes air tight storage of factory sealed containers in dry place.

## PRECAUTIONS:

Keep out of reach of children. Do not allow product to freeze. May enhance color slightly on certain substrates. Apply test area so substrate can be properly evaluated.

## PACKAGING:

1 and 5 gallon containers.

**PROPOSITION 65 (CALIFORNIA):** This product contains a chemical known to the state of California to cause developmental toxicity and cancer. See SDS for more information.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).