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## **Splash Zone Epoxy and Underwater Epoxy Paste**

**Underwater Epoxy Repairs and Crack Filling**

**Epoxy.com Product #2707**

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### **DESCRIPTION**

**Splash Zone Epoxy and Underwater Epoxy Paste Product #2707** is a moisture-insensitive, two-component, 100% solids epoxy-resin system. **Splash Zone Epoxy and Underwater Epoxy Paste Product #2707** is mixed at a 2:1 ratio, by volume, this product produces a paste-like material that is ideal for protection or restoration of concrete, steel and timber piles and other structural elements in marine environments.

This product can be used where contamination from water can occur during the cure process or it can be used directly underwater.

### **ADVANTAGES**

- Convenient 2:1 mixing ratio
- Faster Cure
- Hand-applied
- Can be used above, below, or at the waterline

- Resists wave action
- Restores structural integrity
- Bonds to wet surface

## RECOMMENDED FOR

Recommended for repairing cracks and defects in concrete or masonry under water or on wet substrates.

## PHYSICAL PROPERTIES

Viscosity Mixed	2,500,000 - 3,000,000 cps typical
Color Mixed	Tan/light Brown
Compressive Strength ASTM D 695	9400 psi
Adhesion	405 psi (dry) 350 psi (wet) @ ecometer (concrete failure, no delamination)
Tensile Strength ASTM D638	4,102 psi
Flexural Strength ASTM D790	4,910 psi
Ultimate Elongation	2.3%
Shrinkage ASTM C-883-80	No Shrinkage Used with concrete
Pot Life 1.5 gallon batch	20-30 minutes @ 70°F
Gardner Variable Impactor	50 inch pounds direct - passed
Hardnes Shore D	65
Heat Deflection	138°F>Dry to Touch
Tach Free (dry to touch)	3-12 hours
Recoat or Topcoat	3-12 hours
Light Traffic	10-24 hours
Full Cure	2-7 days
Application Temperature	35° to 90°
Mix Ratio by Volume	2A:1B
Packaging Information	3 gallon units

## MIXING

Mix only as much **Splash Zone Epoxy and Underwater Epoxy Paste Product #2707** as you can use within 20 min. or less at 70 degrees F. If the temperature is higher your working time will be much shorter. It is always better to start with smaller batches and to gradually increase the size, to be sure that you have enough working time. Material temperature should be a minimum of 60°F for ease of mixing. Mix "A" & "B" Components together, by hand, until a uniform gray color is achieved.

## SURFACE PREPARATION

Remove all deteriorated material, barnacles or other marine growth by mechanical abrasion, water or sand blasting. Typically the better the surface preparation, the better the bond. To avoid contamination, apply **Splash Zone Epoxy and Underwater Epoxy Paste Product #2707** to prepared surface as quickly as possible. It is always best to do a mockup to verify that your surface preparation is adequate. This product is intended for hairline cracks and other fractures up to an 1/8 inch in width. Remove all unsound concrete from within the crack to be repaired and thoroughly remove all debris from within the crack opening.

## APPLICATION

For best results, apply **Splash Zone Epoxy and Underwater Epoxy Paste Product #2707** by hand using tight-fitting rubber or

plastic gloves. (Wet gloves with slightly soapy water before working with material.) Press material onto surface and knead into place in maximum lift thickness of approximately 2". Smooth gently by rubbing with gloves using water as a lubricant. For smaller areas you can use a concrete grout bag.

## LIMITATIONS

Do not thin **Splash Zone Epoxy and Underwater Epoxy Paste Product #2707**. Since conditions content vary greatly, it is recommended that a sample application be made to ensure the intended performance. Do not apply when water or ambient temperature is below 50°F.

## COVERAGE

One (1) gallon of **Splash Zone Epoxy and Underwater Epoxy Paste Product #2707** will yield 231 CI and cover 12.8 SF @ 1/8" thickness 125 mil.

## SHELF LIFE

One (1) years for Components "A" and "B".

## LIMITATIONS

- Color stability may be affected by environmental conditions such as immersion service, temperature, or chemical exposure.
- Colors may vary from batch to batch.
- This product is not UV color stable and will discolor when exposed to UV rays or some indoor lighting such as sodium vapor lights.
- All new concrete must be cured for at least 30 days prior to application.
- It is advisable to place test patches prior to undertaking underwater or water contaminated repairs to insure product and surface compatibility.
- The temperature of the water may increase or decrease the time for the material to cure, dependent on the temperature of the water.
- Physical properties are typical values and not specifications.

## PRODUCT STORAGE

Store product at normal room temperature before using. Continuous storage should be between 60 and 90° F. Low temperatures or temperature fluctuations may cause crystallization.

## PRODUCT MIXING

This product has a mix ratio of 2 parts A to 1 part B by volume. To mix, simply measure out equal volumes of the material and mix them together thoroughly with slow speed mixing equipment such as a jiffy mixer, putty knife or spatula until the material is thoroughly mixed and uniform in color. Mix only an amount of material that can be used in the allotted pot life period. Improper mixing may result in product failure.

## PRIMING

No priming is necessary.

## PRODUCT APPLICATION

The mixed material can be applied by marginal trowel, putty knife or any other suitable equipment. It is important to thoroughly work the paste into the repair area so as to displace any water from within the repair area. This product can be used underwater as well as in any area where the flow of water cannot be controlled.

## RECOAT OR TOPCOATING

For underwater repairs, we do not recommend any topcoat be applied. However, in areas where water contamination may occur during the cure process but subsequent to topcoat application, contact Epoxy.com Technical Support for a recommendation for your specific project.

## CLEANUP

Use Xylene.

## SURFACE CLEANING

Caution! Some cleaners may affect the color of the fast set gel installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

## BLOG POSTS & NEWS

You can find more information on [Epoxy Gel Adhesive Products](#), and many of our other products at [news.epoxy.com](http://news.epoxy.com).

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Proper mixing and installation is critical to the optimal success of all product. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

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