



U.W. Epoxy Product Data Sheet

U.W. Epoxy is a three component, aggregate filled, underwater curing, high strength, trowelable epoxy compound.

U.W. Epoxy is designed as concrete rehabilitation lining and grout system for corrosion protection in wastewater applications. **U.W. Epoxy** exhibits extremely superior physical properties and is highly chemically resistant.

U.W. Epoxy displays the following outstanding features & benefits:

- Cures underwater and in water immersion
- Can be applied on vertical and overhead surfaces in one-pass at 1 ½" – 2" thick without slumping or sagging
- High strength
- Excellent bond to Portland cement concrete and metal
- Impermeable
- High impact resistance
- Superior resistance to a wide range of corrosive chemicals
- Easily trowelable
- Excellent working time
- Pre-packaged SCP units/kits

U.W. Epoxy Applications

- Tunnel Lining Repair
- Manhole Joint Sealant
- Concrete Structural Rehabilitation

U.W. Epoxy can be mixed in a plastic pail. Mix Resin (Part A) and Hardener (Part B) before mixing in fillers (Part C1). Slowly add filler until thoroughly mixed. Do not whip air into mix by using a portable electric drill (ex. Bosch 10.5 amp motor, 1,260 rpm, variable speed, 7/8" torque drill). Contact P3 Polymers LLC before modifying the filler content.

Curing:

For ambient temperatures between 55°F and 70°F (13°C and 21°C) completely empty all packaged components (resin, hardener, filler) during the mixing process.

Maximum cure times represent the amount of time required to produce ultimate compressive strength. Additional curing and higher strengths will be achieved over time.

PLEASE NOTE: **U.W. Epoxy** cure rates and flowability is reduced at low temperature (below 55°F). All packaged components (resin, hardener, filler) must be stored in ambient conditions, between 55°F and 70°F, for at least 24 hours prior to use. It is ideal to keep **U.W. Epoxy** materials in a dry and well-protected area until the job site is fully prepared for mixing and placement. Do not store materials in direct sunlight.

U.W. Epoxy TYPICAL PHYSICAL PROPERTIES

<i>Compressive Strength:</i>	<i>10,000 psi</i>
<i>Flexural Strength:</i>	<i>4,500 psi</i>
<i>Flexural Modulus of Elasticity:</i>	<i>2.75 x 10⁵ psi</i>
<i>Linear Shrinkage:</i>	<i>Not measurable</i>
<i>Pot Life:</i>	<i>45 minutes</i>
<i>Density:</i>	<i>115 lbs./cu. ft.</i>
<i>Tensile Strength:</i>	<i>1,800 psi</i>
<i>Shelf Life:</i>	<i>6 months (unopened)</i>



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U.W. Epoxy Packaging: (Each 32.5 lb. unit/kit consists of)

Resin (Part A): (1) 1 gallon Bottle
Hardener (Part B): (1) .5 gallon Bottle
Filler (Part C): (1) 25 lb. Bag

* **U.W. Epoxy** may be purchased in larger unit sizes upon request. Contact the **U.W. Epoxy** representative

Mixing Procedures:

Thoroughly mix 1 gallon of Resin (Part A) with .5 gallon bottle of Hardener (Part B). Mix in 1/25 lb. bag of Filler (Part C) until filler is completely wetted out.

U.W. Epoxy Coverages

Application: Concrete Repair and Rehabilitation Applications

$\frac{3}{4}$ " Thickness: 4.52 SF/Unit

1" Thickness: 3.4 SF/Unit

Before using read and follow the SDS guidelines precautions and first aid directions carefully.

Use this reference as a guide only. The information is believed to be reliable, but no guarantee is made nor do we assume liability in connection with its use.

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