



IPA SYSTEMS

# OCTOCRETE U

Dry Polymer Modified Underwater Repair Mortar



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## QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

### Description

OCTOCRETE U is a single component, ready to use with water, high strength polymer modified , fast setting cementitious mortar for concrete and masonry repair under water.

### Where to Use

OCTOCRETE U is ideal for the horizontal, vertical and overhead repair of concrete and masonry underwater. Applications include: Underwater Structural concrete repairs, dams and spillways, water and waste water projects, concrete piles and piers, and various industrial underwater applications.

### Advantages

- ◆ Made in America
- ◆ Excellent non-sag properties designed for deeper lifts per application
- ◆ Traffic bearing 4 hours
- ◆ Sets in 6 minutes at 70°F (21°C)
- ◆ Excellent freeze-thaw resistance
- ◆ Just add water
- ◆ For added bond strength, add 1 gallon (3.8L) of Octoblen per 50 lbs. (22.7kg) bag in place of 1 gallon of mixing water.

### Coverage

Yield is 0.5cubic feet (0.01 cubic meter)

### Packaging

50lb (22.7 kg) multi-wall bag, 56 Bags/pallet,  
Shelf life: 1 year in unopened bag. Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.

### Technical Data

<b>Compressive Strength (ASTM C-109)</b>	1 day Exceeds 2800 psi (19.3 MPa) 7 day Exceeds 4600 psi (31.7 MPa) 28 day Exceeds 5800 psi (40 MPa)
<b>Flexural Strength (ASTM C 348)</b>  (ASTM C 78)	1 day 600 psi (4.1 MPa) 7 day 750 psi (5.2 MPa) 28 day 900 psi (6.2 MPa) 28 day 1500 psi (10.3 MPa)
<b>Slant Shear Bond Strength (ASTM C 882)</b> (No epoxy used)	7 day 1190 psi (8.2 MPa) 28 day 1640 psi (11.3 MPa)

### Surface Prep

Substrate to be repaired must be cleaned of any film, scale, loose material, oils, grease and any other foreign material that will prohibit bond. Surface preparation must be achieved by mechanical means and methods. All exposed reinforcing steel needs to be mechanical clean to a near white metal finish.

IPA SYSTEMS, INC

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### Mixing

Pre-measure 5 quarts (4.7L) of clean potable water per 50 lb (22.7 kg) bag. Mixing by mechanically (Jiffy®) mixer or mortar mixer for 3 minutes until a uniform consistency.

### Application

**OCTOCRETE U** is designed to set in 6 minutes and must be placed in area to be patched within 6 minutes after mixing. Mix ratio is one 50 pound (22.7 kg) bag per 5 quarts (4.7 L) of water. Mix only as much material as can easily be used in 6 minutes. Mix powder with water and wait 2 to 4 minutes before placing underwater according to the depth of patch area below the water surface. Pack all material quickly and firmly into patch area making sure to displace all trapped air and water out of patch. Once **OCTOCRETE U** sets, no deterioration will occur.

### Limitations

- ◆ Minimum material, surface and ambient temperature must be 40°F (7°C) and rising
- ◆ Minimum application: 1/8 Inch- Maximum lift: 1.5 inches, Do not feather edge.
- ◆ Do not apply to a frozen surface or allow material to freeze
- ◆ Do not use solvent based curing compounds

### Clean-up

Clean up must be done immediately due to the high bonding characteristics of Octocrete. Clean equipment with water.

### Caution

**FOR INDUSTRIAL USE ONLY:**

Freshly mixed cement, mortar, grout, or concrete may cause minor skin irritation. Avoid direct contact where possible and wash exposed skin area promptly with water. If any of the cementitious material gets into the eyes, rinse immediately and repeatedly with water. If irritation persists, obtain medical assistance.

### Warranty

This product is warranted and guaranteed to be of good quality. Manufacturer, as its sole and exclusive liability hereunder, will replace material if proved defective. This warranty and guarantee are expressly in lieu of all others, express or implied, including any implied warranty of merchantability or fitness for a particular purpose and may not be extended by representatives or any persons, written sales information, or drawing in any manner whatsoever. While the manufacturer recommends uses for the product based on tests believed reliable, no warranties, express or implied, or guarantee can be given as to particular methods of use or application, nor can performance be warranted, expressly or impliedly, or guaranteed under special conditions. Distributors, salesperson or company representatives are not authorized to extend or vary any warranties or guarantees beyond those outlined herein nor may the manufacturer's or seller's limitation of liability be waived or altered in any manner whatsoever.

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