



IPA SYSTEMS

# OCTOPLUG PLUS

Rapid Setting Water Stop Mortar



IPA SYSTEMS

## QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

### Description

**Octoplug Plus** is a single component, expanding, polymer modified hydraulic cement based water-stop mortar. It is designed to stop running water and seeping water through cracks in concrete and masonry under hydrostatic pressure, through openings in concrete or masonry.

### Where to Use

**Octoplug Plus** can be used to quickly and permanently stop running water through seeping cracks, holes, joints, vertical or horizontal masonry and concrete surfaces under hydrostatic pressure. Other applications Include:

To quickly and permanently plug and seal construction holes left by wood or steel separators, form ties or tie wire cut-offs.

As a rapid-setting anchoring grout for ornamental/functional iron, dowels and bolts where continuous high vibration is not a factor.

By plumbing and electrical trades to permanently grout openings around clay, plastic and metal pipes, boxes and fixtures placed in masonry and concrete walls.

Filling and resurfacing honeycombs and surface breaks in precast and poured in-place concrete, as well as

### Advantages

- ◆ Made in the America
- ◆ Available in two initial set times: 60 to 90 sec. & 3 to 5 min.
- ◆ Polymer modified for better workability
- ◆ Available in 10 lb pails for smaller projects
- ◆ Economical— jut add water

### Coverage

One pound (.45 kg) of **Octoplug plus** will fill 19 cubic inches (312 cm<sup>3</sup>) or 6.3 lineal feet of crack ½ inch deep and ½ inch wide (192.8 cm x 12.7 mm x 12.7 mm).

### Packaging

Packaging: 10 lb. (4.5 kg) Plastic Pail; 50 lb. (22.7 kg) Plastic Pail  
Shelf Life: One year in unopened container. Requires dry storage

Color: Dark Gray

### Technical Data

Compressive Strength (ASTM C 109): Obtains 50% of strength in just over 24 hours.  
Final compressive strength exceeds 5000 psi. (34.5 MPa)

Tensile Strength: Final Tensile Strength exceeds 330 psi (2275 kPa)

Length Change (ASTM C 157): 0% Length Change

### Surface Prep

A clean, sound and contamination free surfaces is required for Octoplug Plus to work properly. Mechanically or manually remove all loose or defective material from areas to be repaired. Provide sound mechanical key by undercutting (preferred) or square cutting (acceptable), an opening for the entire length of the hole, crack or joint to be sealed. Prepared patch area should be minimum ½ inch wide and ½ inch deep (12.7 mm x 12.7 mm) (**DO NOT V CUT**). Area must be SSD ( Saturated Surface Dry) before and after packing in **Octoplug Plus**.

### Mixing

For all applications (except re-surfacing) mix only as much material at one time as can be placed in 60 to 90 seconds. Dampen the mixing container, add 60 to 90 seconds supply of **Octoplug Plus** powder to sufficient clean, cool water while vigorously kneading to bring to a stiff putty-like consistency. Always add powder to water. For re-surfacing with sand addition, premix the dry sand and dry **Octoplug Plus** powder and proceed as above. Bring wetted material to a slurry consistency.

IPA SYSTEMS, INC

P.O. Box 26869- 2745 North Amber Street, Philadelphia, PA 19134

Tel: 800-523-3834, Fax: 215-425-6234, E-mail: [info@ipasystems.com](mailto:info@ipasystems.com), Web Site: [www.ipasystems.com](http://www.ipasystems.com)



IPA SYSTEMS



IPA SYSTEMS

## QUALITY PRODUCTS FOR THE CONCRETE /MASONRY REPAIR INDUSTRY

### Application

To **stop running water**, start at the top or end of the prepared opening and force **Octoplug Plus** mortar firmly into the opening with a packing action, but with a minimum working of the surface. Where water is flowing under pressure and likely to force the material out of the opening, hold the putty-like **Octoplug Plus** in the palm of the hand until the mix feels warm. Then immediately force the warm **Octoplug Plus** into the opening and keep pressure on the plug with the heel of the hand or trowel until the material hardens and water stops flowing. After setting occurs, the surface may be scraped for leveling. Where **water pressure is not present**, non sag, putty like **Octoplug Plus** is firmly forced into the opening for a complete fill. In **anchoring** applications, place the mix in the opening and force the metal fixture in at the center of the plugged opening. Tamp firmly around the surface and keep the mortar surface moist for 15 minutes. The imbedded fixture may be safely utilized after 10 hours. For **re-surfacing**, place with a gloved hand as a float. Level while rubbing. For smoother final surface the patch can be re-dampened immediately after its initial set and the surface worked with a clean steel trowel or similar hard, smooth tool.

### Limitations

- ◆ Minimum material, surface and ambient temperature must be 40°F (4.4°C) and rising
- ◆ Setting time is accelerated by heat and decreased by cold. 60 second initial set occurs when the water and surface temperature are at 70°F (21°C)
- ◆ Do not mix more than can be used in 60 to 90 seconds.

### Clean-up

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

### Caution

#### FOR INDUSTRIAL USE ONLY:

Wet cement, especially as an ingredient of a plastic mixture, can dry the skin and cause alkali burns. Cement dust can irritate the eyes and respiratory system. Cement dust can cause inflammation of the lining tissue of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. Cement may contain traces of hexavalent chromium. This product may contain 2 to 50 percent silica sand, a portion of which may be respirable dust. In its dry state, refrain from inhalation of dust to prevent possible free silica exposure. Users should wear rubber gloves, eye protection and protective clothing to prevent skin and eye contact. Good ventilation to control dust levels is recommended.

Before use, contact manufacturer to obtain Material Safety Data Sheet (MSDS) and consult package label for additional safety and use information.

### 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.

IPA SYSTEMS, INC

P.O. Box 26869- 2745 North Amber Street, Philadelphia, PA 19134

Tel: 800-523-3834, Fax: 215-425-6234, E-mail: [info@ipasystems.com](mailto:info@ipasystems.com), Web Site: [www.ipasystems.com](http://www.ipasystems.com)