HYDROPLUG

Single component, extremely fast setting, non-shrink, expansive type, hydraulic cement for repair of underwater concrete or concrete subject to hydrostatic water pressure.

HOW IT WORKS

Hyrdoplug immediately reacts with water to form a water tight seal to stop the flow of water. Repairs concrete which is actively leaking or is underwater.

APPLICATIONS

- Use to patch leaks in concrete basements, tunnels, mines, dams, tanks, swimming pools, walls, hydroelectric structures, oil platforms, sea walls, aquariums and man made concrete-lined lakes and ponds.
- Use to stop leaks in underground concrete pipes.
- Used to anchor ornamental iron, dowels, rods, bolts or parts.
- Used to patch roads, bridge decks, parking garage driving surfaces and refrigerated and freezer floors at temperatures below 32° F (0° C).

ADVANTAGES

- Develops extremely high early strength.
- Sets up at temperatures below 32° F (0° C). Excellent for low temperature patching and repair work.
- Sets up underwater.
- Develops high bond strength and seals off the flow of water in 3-6 minutes.
- Firmly anchors bolts, railings, dowels, etc.

⚠ PRECAUTIONS ⚠

- Do not featheredge. Minimum thickness is 1/2 inch (13 mm).
- Do not mix more Hyrdoplug than can be applied immediately.
- Do not add plasticizers, accelerators, retarders or additional cement.
- Do not retemper with water.
- Do not add more than the recommended amount of water.

USE INSTRUCTIONS

- Request current product literature, labels and material safety data sheets from manufacturer and read thoroughly before product use.
- Site environmental conditions, substrate conditions and construction have a major effect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify that product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- Remove all unsound concrete, grease, oil, dirt, laitance and other foreign contamination from the surface.
- Mechanically roughen area to be patched.
- Before placing Hyrdoplug, thoroughly saturate concrete bonding area with water. Remove excess water and allow concrete bonding surface to dry slightly before Hyrdoplug is placed. When concrete substrate is below 32° F (0° C), do not dampen bonding surface.
- Cavities and voids should be a minimum of 1/2 inch (13 mm) in depth.
- Pre-wet mixing containers and drain excess water prior to mixing initial batch.
- Add the appropriate amount of clean mixing water (see technical data) to mixer and slowly add dry Hyrdoplug while continuously mixing. Mix for 30 seconds to 1 minute or until a uniform consistency is achieved.
- The optimum mixing water temperature is 70° F (21° C). At temperatures above 100° F (38° C), mix with cold water to increase working time. At temperatures below 40° F (4° C), add 70° F (21° C) mixing water to speed up the set time and to prevent product from freezing. Once Hyrdoplug begins to react with water, the heat of hydration will keep it from freezing.
- To repair small holes, form the material to a suitable shape in your hand. Once firm and warm, force the material into the area being repaired.
- To stop active water leaks, maintain constant pressure behind the material for a full 6 minutes.
- For underwater repairs, wait until the material begins to get warm before placement. The use of a plastic bag may be beneficial.`
- To cure Hyrdoplug, keep the repaired area damp for 15 minutes.

WATER REQUIREMENT

Grout	Mixing Water
10 lbs. (4.5 kg)	0.9 qt. (0.8 L)
20 lbs. (9.1 kg)	1.8 qt. (1.7 L)

Note: Jobsite conditions may affect actual quantities of water needed. Above mixing water recommendations are intended only as a guide.

MIXED YIELD

Mixed Pail	23.8 lbs. (10.8 kg)	0.18 $ft.^3$ (5.1 L)

TECHNICAL DATA

Test Method	Parameter	Test Results
ASTM C109	**Compressive Strength**	**Temperature 70° F (21° C)**
	10 Minutes	800 psi (5.5MPa)
	30 Minutes	900 psi (6.2MPa)
	1 Hour	1,000 psi (6.9MPa)
	1 Day	1,800 psi (12.4MPa)
	7 Days	4,000 psi (27.6MPa)

PACKAGING

Packaged in 20 lb (19.1kg) resealable, plastic bags.

SHELF LIFE

Shelf life is one year. Use before the “USE BY” date stated on product packaging.

HANDLING/STORAGE

Read Material Safety Data Sheet (MSDS) prior to using. Contains portland cement and silica sand. Use proper safety equipment (gloves, goggles or glasses and dust masks). Store in a cool, dry area.

AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, NOX-CRETE Products Group maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, call 800-669-2738 or 402-341-2080.

LIMITED WARRANTY

NOTICE-READ CAREFULLY

CONDITIONS OF SALE

NOX-CRETE offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of NOX-CRETE. No other representative of or for NOX-CRETE is authorized to grant any warranty or to waive limitation of liability set forth below.

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NOX-CRETE warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, NOX-CRETE will replace the defective product with new product without charge to the purchaser.

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