



IPANEX RAPID

RAPID WATER STOP

Stops Water Leaks in Concrete and Masonry Surfaces

IPANEX RAPID - Product Data Sheet

An Admixture to Produce Rapid Setting Mortars

Description:

IPANEX RAPID is a liquid admixture which when mixed with portland cement becomes an extremely rapid setting plastic material used to stop pressure leaks in concrete and masonry structures.

Uses:

IPANEX RAPID can be used to stop water leaks in dams, foundation walls, manholes, pipelines, underground structures, swimming pools, fountains, tunnels, basement walls and floors.

Advantages:

- ◆ Will stop water under pressure
- ◆ Sets within 30 to 50 seconds
- ◆ Becomes extremely plastic when combined with portland cement
- ◆ Economical
- ◆ Generates minimal heat when setting
- ◆ More than 30 years of proven performance

Technical Data:

Packaging: Available in cases of four 1-gallon (3.8 L) containers or in 5-gallon (18.9 L) plastic pails.

Application Time: Judgment must be used to mix **IPANEX RAPID** in small quantities due to the extremely rapid set. After the portland cement is added to the liquid **IPANEX RAPID**, the mixed compound will set in approximately 30 seconds. This action allows the material to bond mechanically and chemically to saturated surfaces. A delay in setting, if required, can be attained by adding fine sand to the neat cement mixture or by reducing the amount of cement added to the liquid.

Storage: **IPANEX RAPID** liquid must be stored at temperatures above freezing.

Precautions: Do not combine with portland cement until surface preparation is complete. **IPANEX RAPID** modified repairs should be top-coated with IPA Systems **DRYCON** to attain a permanent water-tight seal.

Yield: 1 quart of **IPANEX RAPID** plus portland cement = approx. 80 cubic inches plug

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IPANEX RAPID Product Data Sheet Page 2 of 2

Installation:

- Material:**
- (a) Portland cement Type I or Type II shall conform with ASTM C 150.
 - (b) Sand (if required) shall conform to ASTM C 144 Aggregate for Masonry Mortar.

Surface Preparation:

Surface to be treated must be cleaned of any film, scale, loose material, oils, grease, dust, dirt, laitance, efflorescence, oil-based curing membranes or form release agents, paint, unsound concrete and any other material that will prohibit bond. Chip or chisel away all loose or unsound material forming a small hole where water is leaking. Provide a firm mechanical key by undercutting wherever possible.

Mixing:

For normal rapid setting, combine equal volumes of **IPANEX RAPID** and portland cement (half of an old rubber basketball makes an excellent mixing container).

Always add cement powder to **IPANEX RAPID** liquid all at once. Stir with hands crushing any lumps (ALWAYS USE RUBBER GLOVES) until **IPANEX RAPID** mixture starts to become a smooth plastic mass. Remove from the mixing container while still plastic and press firmly into the prepared hole for one minute. For retarded rapid setting (set time approximately 50 seconds), combine equal parts by volume of **IPANEX RAPID**, portland cement, and clean fine masonry sand or reduce the volume of cement to be added to the liquid **IPANEX RAPID**.

Application:

In situations where there is a large flow of water and where the pressure is great, it is recommended that lead wool be used to reduce the flow prior to the application of the **IPANEX RAPID** and portland cement mixture.

When mixed, apply **IPANEX RAPID** mixture to properly prepared holes with as great a hand force as possible, packing the material solidly into openings until water is no longer flowing – approximately one minute (ALWAYS USE RUBBER GLOVES). Should the area being repaired be a continuous crack, small amounts of the **IPANEX RAPID** mixture should be placed side by side until the flow of water is stopped.

If general seepage is the problem, the **IPANEX RAPID** liquid may be spray applied directly to the seeping area, followed immediately with dry portland cement rubbed into the surface. As the cement is rubbed into contact with the **IPANEX RAPID** admixture, a rapid set will occur. Continue the application until the seepage stops. Coat with IPA's **DRYCON**.

In situations where there is extensive water penetration, such as a manhole, it may be necessary to drill weep holes at the bottom of the structure to relieve the hydrostatic pressure. Insert tubing into the drill holes (a piece of garden hose may be used) to transport water to outlet pipe. When all other repairs are completed and IPA's **DRYCON** waterproofing has fully set, the relief holes may then be sealed using an **IPANEX RAPID** mortar and **DRYCON** coating.

At completion of repairs, the **IPANEX RAPID** compound must ALWAYS be treated with a **DRYCON** or repair mortar topping. Surfaces treated with **IPANEX RAPID** compound may be coated as soon as the surface has set.

Clean-Up:

Cleanup must be done immediately due to high bonding characteristics of **IPANEX RAPID** modified mortars. Clean equipment with water and a mild detergent.

CAUTION – FOR INDUSTRIAL USE ONLY:

In accordance with federal regulations, do not apply unless Material Safety Data Sheet (MSDS) is available on-site. Consult MSDS before using this product. Always use rubber gloves when using this product and portland cement. Wear eye and skin protection according to MSDS instructions.

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 DRAWINGS IN ANY MANNER WHATSOEVER.

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