WET-SEAL®

AN EXTRAORDINARY HYDRAULIC TREATMENT FOR IN-DEPTH CONCRETE WATERPROOFING

The most economical and effective capillary waterproofing systems which makes leaks a technological thing of the past.

ONE PRODUCT DOES-IT-ALL

- New or Old Building Structures
- Interior or Exterior foundation walls
- Concrete roof slabs, plaza decks and parking garages
- Potable water reservoirs, cisterns and towers
- Below ground level structures
- Elevator pits and walls
- Swimming pools
- Wet Wells
  Brick or concrete block walls
- Fountain pools and concrete planters
- Tunnels and Man-holes
- Excellent for Solving local and minor repair work
- Sewage and Water treatment tank
- Concrete pipes

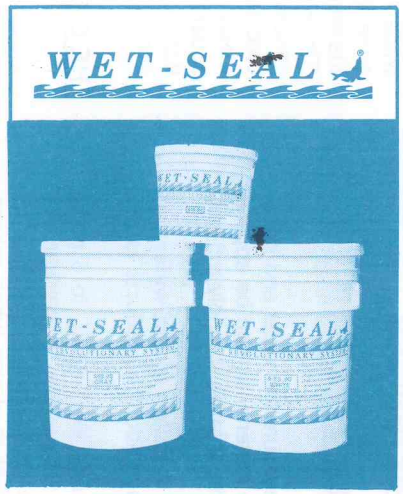
WET-SEAL DRY POWDER BROADCAST

Dry powder broadcast and steel trowel or "helicopter" into concrete during initial set for excellent dust-proof area and surface hardener:

- Parking decks: exposed surface or interior slab application
- Ground & Below Ground Level slabs

WET-SEAL MORTAR CONSISTENCY:

Application:
- Dries in minutes
- Superior active-leak " plug "
- Fills out snap-tie holes, cracks, honeycombed areas, construction joints and other areas



HOW TO STOP A LEAK WITH WATER

HYDRAULIC TREATMENT FOR IN-DEPTH CONCRETE WATERPROOFING

WET-SEAL®

STATE OF THE ART WATERPROOFING

Decades of experiences as consultants in the field of concrete waterproofing rendered the development of **WET-SEAL** an extraordinary hydraulic cement for in-depth concrete waterproofing. **WET-SEAL** describes, in a very concise manner, how the product works: sealing concrete with the very same water, which causes the filtration. It not only works with water pressure, but amazingly, it functions against water pressure. Truly an extraordinary material, this special blend of non-toxic chemicals and Portland cement provides the latest ***STATE-OF-THE-ART*** technology in waterproofing concrete and masonry block structures in-depth.

HOW IT WORKS

The **WET-SEAL** chemical solution bonds to the concrete, allowing water to penetrate, become chemically charged and thereby developing a network of crystals within the capillary tracks and shrinkage cracks of the concrete. While most other products merely cover the superficial pores of the concrete, **WET-SEAL** initiates a deeply penetrating chemical process, which continually guards the cured structure from subsequent moisture. Indeed, this is **WET-SEAL** greatest advantage: it has the capacity to re-activate the sealing process whenever in the presence of water (no re-application is necessary).

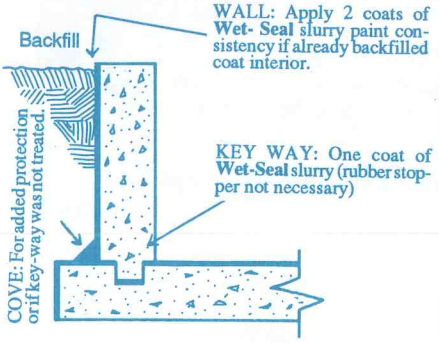
Although the crystalline growth within the capillary tracks blocks the subsequent passage of water, the concrete continues "breathing". In as much as these crystals become integrated into the structure, the treatment decreases the concrete's natural porosity, thereby increasing it's density. Subsequently, once the concrete is cured, the reinforcing steel is spared further erosion caused by oxidation.

Sealants, membranes and built-up systems usually call for a dry surface before the application can take place; this is not always possible since concrete normally retains moisture. **WET-SEAL** requires a thoroughly moistened surface before application. New concrete is ideal for the product's maximum effectiveness, since moisture is present throughout. Old concrete should be presoaked prior to application. The application is simple, but its uses are diverse. The ready to mix powder requires only water for its application. When applied and dried, the **WET-SEAL** treatment once again requires moisture to initiate a chemical reaction within the concrete, thereby activating the curing process.

WET-SEAL offers a maximum diversity of uses: "***one product does it all.***" It waterproofs any type of concrete or block structure in-depth and creates a waterproof bond between old and new concrete. It is also a superior active leak plug. It can also be used to repair chipped out cracks and honeycombs. Finally, **WET-SEAL** offers the architect added creative freedom: roof slabs need no longer remain useless space just to accommodate built-up roof with guaranteed restrictions. With the **WET-SEAL** treatment, any structurally sound concrete roof slab can be converted into a landscaped oasis, a stress-free environment with concrete ponds, pools or fountains, or a recreational area for office employees or tenants.

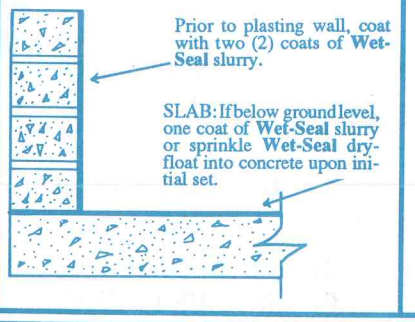
APPLICATION DETAILS

FOUNDATION WALL AND SLAB

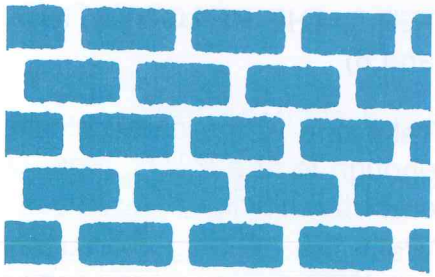


WALLS AND SLAB

BLOCK WALL AND SLAB



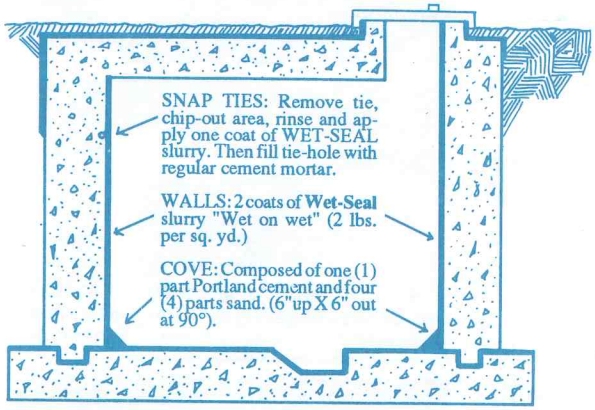
RED BRICK WALL



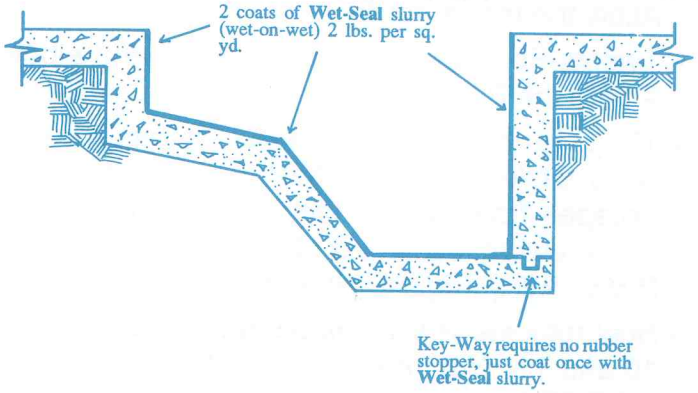
Use small brush to paint mortar inbetween the bricks with one thorough coat of WET-SEAL.

Cover all pinholes

WATER TANK/CISTERN



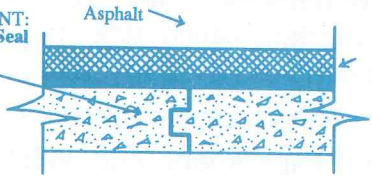
SWIMMING POOL



PARKING LOT DECKS

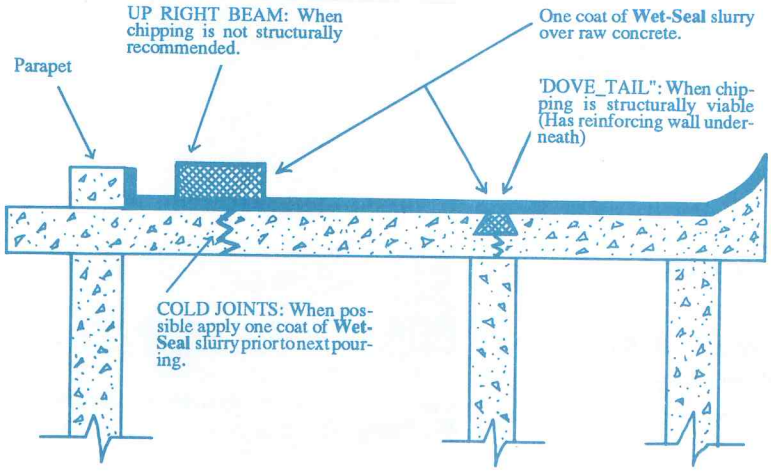
Heavy traffic and when no road topping will be used sprinkle **Wet Seal** dry & float with trowel upon concretes initial set (2 lbs. per sq. yd.)

CONSTRUCTION JOINT: Apply one coat of **Wet-Seal** slurry prior to pouring.



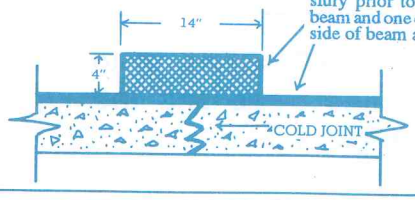
One Coat of **Wet-Seal** slurry, or upon concretes initial set, sprinkle **Wet-Seal** dry & float with trowel.

ROOFSLABS



UP-RIGHT BEAM

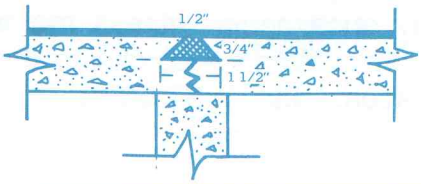
Apply on coat of Wet-Seal slurry prior to installing the beam and one coat on top and side of beam after stipping.



"DOVE-TAIL" MEASUREMENTS

(1/2" openings X 3/4 depth X 1 1/2 base)

Apply on coat of Wet-Seal slurry to "dov-tail" opening and fill with the SPECIAL **WET-SEAL** MORTAR..



SPECIFICATIONS

SURFACE PREPARATION

1. The concrete must be **structurally sound.** Remove all foreign matter from the original surface: dirt, oil, algae, cement latents or other contaminants.
2. Remove all sealants, membranes and built-up systems.
3. The surface should have **a rough wooden-float finish.** If the surface is polished use muriatic acid, a water-blasting or a sandblasting machine to roughen ups the surface. Please take all necessary protective measures when handling acid. .
4. Cold joints, construction joints, and cracks greater than 1/10 of an inch should be chipped out approximately ½ inch wide x ½ inch deep or **to sound concrete**.
5. **The surface should be thoroughly moistened**, yet free of puddles, prior to application. Old concrete should be pre-soaked the day before and remoistened immediately before a applying the treatment.

MIXING CONSISTENCIES

SLURRY PAINT CONSISTENCY:

1. Use separate container to measure the water and ***WET-SEAL*** powder. Mix no more material as can be applied within 20-30 minutes (the time it takes to apply a 5 gal. bucket of ***WET-SEAL***).
2. **Per 5 gallon bucket: pour 7 gallon of the water per** bucket of ***WET-SEAL***. Always add the products to the water (not vice versa).
3. **Small Quantities**: Add 2 parts ***WET-SEAL*** to 3 parts water. **Stir thoroughly and frequently**, to maintain the slurry consistency during the application.
4. **IMPORTANT NOTE**: Use rubber gloves when mixing manually.

MORTAR CONSISTENCY

1. **Add** water to a cup full of ***WET-SEAL*** or no more than can be used whiting 20 minutes.
2. **SPECIAL *WET-SEAL* MORTAR**: ideal to reduce acceleration and avoid shrinkage of the material. Add one (1) part of **fine sand** to one (1) part of ***WET-SEAL.***
3. **Work** the mixture with a trowel or knead about one minute to reach a firm mortar consistency.
4. **Apply** to leaking crack or hole with continued pressure until the plug or patch holds by itself. It will set within a few (1-3) minutes.

PRECAUTION

Avoid direct and continuous contact with the mixture as the cement and other chemicals may cause skin irritation. Use rubber gloves and goggles. Wash thoroughly after use. In case of skin or eye contact, rinse inmediately with clean water. Do not rub eyes. If irritation persists, contact a physician. Keep out of children's reach.

COVERAGE

A Five (5) gallon, 55 pounds of finished product bucket of *WET-SEAL* covers:
400 square feet (concrete with wooden float finish)
300-350 sq.ft. (rougher surface: exposed aggregate)
450-500 sq. ft. (polished surface: must be etched)

APPLICATION

SLURRY PAINT CONSISTENCY:

Use a nylon bristle brush or push-broom to apply the slurry solution.

1. Apply ***WET-SEAL*** slurry paint consistency over raw concrete or cement blocks, which have been moistened prior to application as per specifications.
2. Coat the surface evenly and completely, but eliminate all excess of the solution.
3. Immediately after coating, fill-in all chipped-out cracks, cold joints, construction joints, honeycombed areas and the holes with Portland cement mortar. Fill-in in laminating layers no thicker than one inch.
4. Tanks, cisterns and foundation walls should be coated twice: "wet-on-wet". The second coat should be applied once the first reaches its initial set (within the hour). If the first coat dries, moisten before applying the second.
5. "Dry/Float" (integration of ***WET-SEAL*** powder onto new concrete slab): Upon initial set, sprinkle ***WET-SEAL*** onto surface either by broadcasting or sifting with a fine mesh sieve. Quantity: 2 pounds of ***WET-SEAL*** per square yard. Work into the slab with wood-float, trowel-float or power trowel (for a polished and dust-free surface).

THE CURING PROCESS

1. Allow the treatment a 24-hour drying period. Protect from rain during this period.
2. Protect the treatment from heavy traffic and direct pressurized water hosing for 5 days.
3. 24 hours after completing the application initiate the curing process by: "flooding" the area with at least a ½ inch of water for a minimum of 5 day or until cured. If "flooding" is not possible, saturate the area 2-3 times daily for a period of at least 1 week or allow rainwater to curer the concrete over a longer duration or leave to rain water. The more rain water the bether.
4. Cisterns and Tanks: (all closed structures) may require a longer drying period (48-72 hours). Once dried, hose-down the treated area with water. Simultaneously hose-down and lightly scrub the wall with a nylon bristle broom to remove any dust particles. Rinse thoroughly and proceed to fill the structure with potable water.

LIMITED WARRANTY

As the manufacturer, we warrant this product to be defect-free, as described or specified herein. Our sole obligation is limited to replacing the defective material. Any damage or failure due to improper use or any other factor beyond our controls is not covered by this warranty. Also excluded from the limited warranty are any consequential damages resulting from product defect.

WET-SEAL®

TRY OUR "SEEING IS BELIEVING" EXPERIMENTS

STEP 1: Take both masonry blocks, fill the insides with 2 inches of regular cement mortar, thereby installing a floor, and allow the cement to dry overnight. See Photo 1.

STEP 2: **Test** the untreated block for filtration problems: first fill it with water. Then, observe the result: it cannot retain water for any extended period - within minutes the block is empty.

STEP 3: **Paint** the interior of one block with **WET-SEAL** (slurry consistency). PAINT the exterior of the second block, including the bottom part with one coat of **WET-SEAL** (slurry consistency). Coat the indicated areas completely and thoroughly with the treatment - cover all pinholes. Allow treatment to dry overnight. See Photo 3.

STEP 4: **The Curing Process**: First fill both blocks with water and observe. See photos 3, 4 & 5.

WORKS WITH WATER PRESSURE: The Interior-Treated block will begin to resist the water filtration. It may take 1 to 3 days before the process is complete And the block is totally water-tight.

WORKS AGAINST WATER PRESSURE: The performance of the exterior-treated block is even more impressive: water will totally penetrate the block's exterior before it begins the curing process in reverse. It may take 1 to 2 days before the exterior wall dries completely, eliminating any water filtration whatsoever. See photo # 4 & 5. Furthermore, even when you expose the cured block to extreme weather conditions, hot or cold, for extended periods of time, when later filled with water, it will remain waterproofed, water-tight.

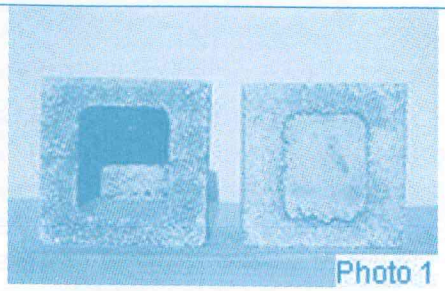


Photo 1

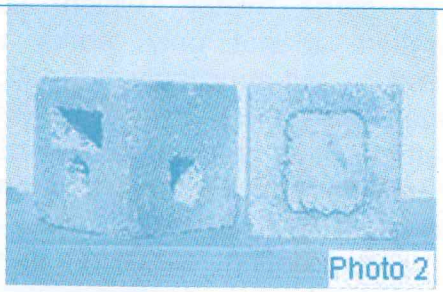


Photo 2

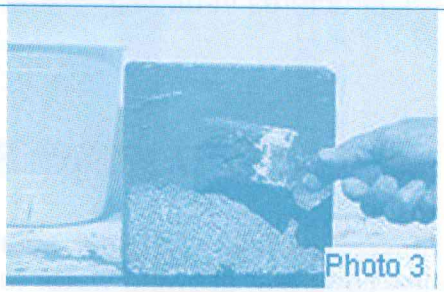


Photo 3

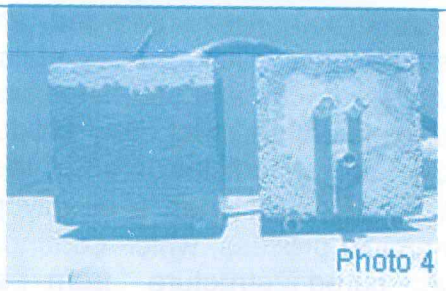


Photo 4

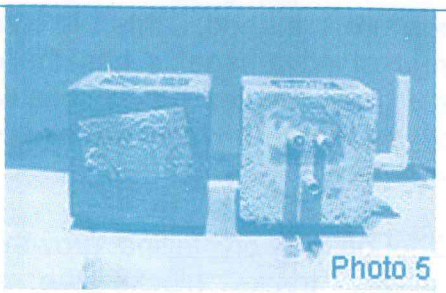


Photo 5

STEP 5: THE REACTIVATING PROCESS: (See photos 2, 7 and 8)

- Take one of the cured blocks and drill an opening large enough to fit a P.V.C. pipe. Do not use a chisel, as it will crack the block.
- Wash the opening thoroughly and coat the interior area with **WET-SEAL**, (slurry consistency).
- Place the P.V.C. pipe inside the cavity and secure it by packing both sides of the block wall with **WET-SEAL** mortar. Allow it to harden.
- Prepare small portions of **WET-SEAL** mortar; it's fast setting and any material prepared and not used is lost. Allow the mortar to dry.
- Twenty-Four (24) hours later install and elbow (see photo # 5) to the P.V.C. pipe by using P.V.C. glue.
- Then, fill the block with water; try not to wet the exterior walls while filling, so that you may see how the water escapes from around the P.V.C. pipe, which at this point is somewhat loose, but after the area is waterproofed, the P.V.C. will be rigidly set and resist movement.
- Now turn the P.V.C. elbow handle downward (see photo 10 and 11). You may cap the elbow opening or plug it with **WET-SEAL** mortar to avoid water spillage through the elbow. This movement will break the bond between the pipe and mortar, which was formed during the curing process, forcing the area to leak once again.
- Watch the curing process reoccurs.
- Repeat this experiment and **WET-SEAL** will reactivate each time while in the presence of water. Not only it will work around P.V.C. piping, but also copper, steel, rubber, etc.
- Use the **WET-SEAL** in to plug the ends of the above-mentioned pipes and thereby eliminate active leakage (See photo # 5.).

ANOTHER EXPERIMENT

Build a small brick cistern, coat it with **WET-SEAL** (slurry consistency), and allow to dry. Fill it with water so that you may once again witness the amazing **WET-SEAL** curing process. When it comes to the age-old problem of water filtration, with **WET-SEAL** it technologically becomes a problem of the past.

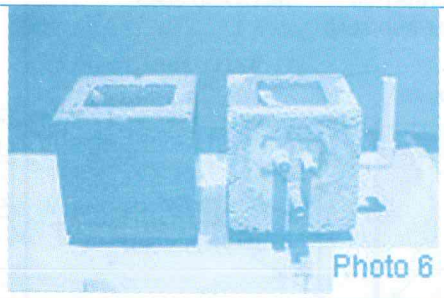


Photo 6

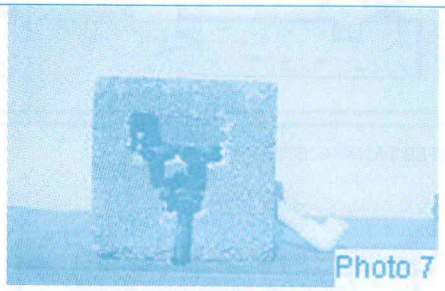


Photo 7

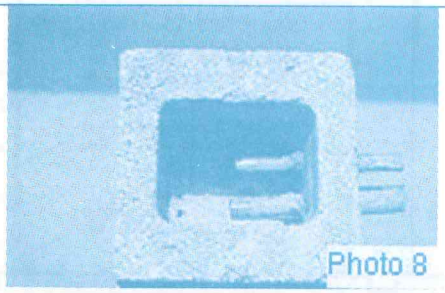


Photo 8

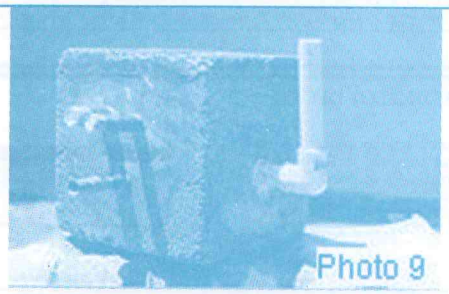


Photo 9

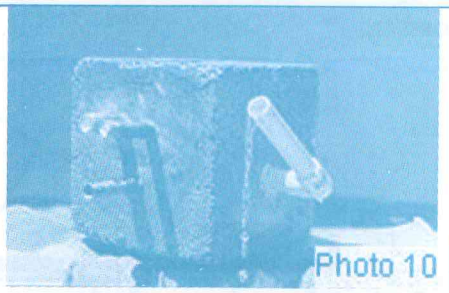


Photo 10

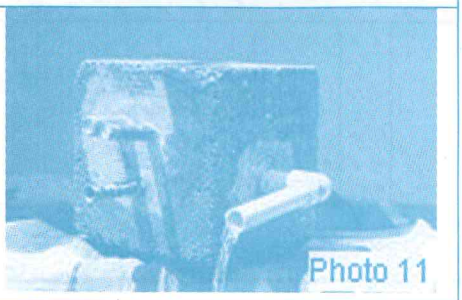


Photo 11