



Fast Setting Waterproof Repair & Sealing Mortar

- ☑ Capillary/Crystalline
- ☑ Potable water certified - NSF/ANSI 61
- ☑ Applied to positive or negative side

Product Description

AQUAFIN® MORTAR-IC is a cementitious, ready-mixed waterproof repairing and sealing mortar. It consists of rapid setting Portland cement, specially treated quartz sand and a compound of active chemicals which resist water pressure.

LEED Points:

- ◆ MR Credit 5.1, Regional Materials:..... Up to 2 Points
- ◆ IEQ Credit 4.2, Low-Emitting Materials, Paints and Coatings:..... 1 Point.

Typical Applications

Applied in conjunction with AQUAFIN-IC for:

- Installation of seal strips (reglets and coves) at joints to assure water tightness
- Patching of tie holes and faulty construction joints
- Filling of routed out cracks
- Waterproof sacking of concrete "bugholes"
- Repairing of spalled and honeycombed areas.

Advantages

- Applied to the positive or negative water pressure side of a structure
- Resists strong hydrostatic pressure
- Post sealing effect of shrinkage cracks up to 1/64" (0.4mm) together with AQUAFIN-IC
- Easy to use - needs only to be mixed with water prior to application
- Safe for use in contact with potable water
- Not a vapor barrier, lets concrete "breathe"
- Can be skim coated or feather edged
- Applied to moist concrete
- No odor - no fumes ■ Inorganic - no polymers.

Properties

MORTAR-IC contains active waterproofing chemicals which react with moisture and free lime in the mortar and concrete, creating insoluble crystalline complexes. These crystalline complexes, similar to a gel which grows in the presence of water, block the capillaries of the MORTAR-IC and minor shrinkage cracks, thus preventing water ingress.

Chemical activation begins when the MORTAR-IC powder is mixed with water and may take several days to completely block the capillaries depending on ambient temperature and environmental conditions.

The waterproofing chemicals remain active for the life of the structure, permanently sealing it from water penetration.

Preparation of Substrate

All surfaces to be patched, repaired or sealed with MORTAR-IC must be sound and open-pored to provide mechanical bond (ICRI CSP 3-5 profile).

- Remove all dirt, cement laitance, form release agents, curing compounds, paints, etc. by means of wet or dry sandblasting, a high pressure water jet or other suitable mechanical means.
- Surfaces must be well moistened to a dull dampness at the time of application.
- Active water leakages must be stopped using AQUAFIN-PLUG-IC or FIX 10-S. Use chemical injection grout (i.e. AQUAFIN-RAPIDFLEX-213) for extreme flows.
- Cracks should be routed out to a U-shaped configuration, approx. 3/4" (20 mm) wide and a minimum of 1" (25 mm) deep.
- Tie holes should be roughened prior to filling.
- Spalled and honeycombed areas must be thoroughly cleaned and chiseled back to sound concrete prior to repair.

Mixing

MORTAR-IC should be mechanically mixed with clean water to a trowelable mortar consistency.

Approximate mixing ratio is :

- ◆ 50 lb powder to 0.9 - 1.0 gal water ◆
(22.7 kg to 3.4 - 3.8 L)

For glove pointing add small amount of water. Mix only as much material as can be used within 30 minutes.

Physical Data

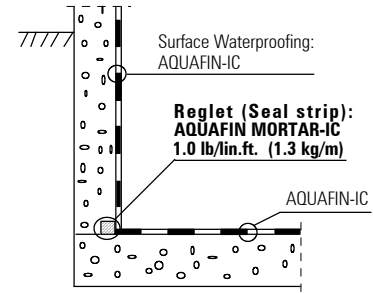
Aggregate State:	Powder
Color:	Cement gray
Bulk Density:	93 lbs/ft ³ (1.5 kg/dm ³)
Pot Life:	30 - 40 minutes
VOC:	0 g/L (0%)
Compressive Strength:ASTM C-109	2,400 psi (17 MPa) @ 1d 4,000 psi (27 MPa) @ 28d
Flexural Strength: ASTM C-348	660 psi (4.6 MPa) @ 1d 820 psi (5.7 MPa) @ 28d
Shrinkage:	0.04% (0.4 mm/m) @ 28d
Contact with potable water:	Certified to NSF/ANSI Standard 61

Consumption & Yield of 50 lb (22.7 kg) bag

	Size inch (mm)	Consumption lb/ft (kg/m)	~Yield/bag ft (m)
Cracks, U-shaped	1 x 1 (25x25)	1.0 (1.3)	50 (15.3)
Reglets	1 x 1 (25x25)	1.0 (1.3)	50 (15.3)
Coves, triangular shaped	1.5x1.5 (38x38)	1.0 (1.3)	50 (15.3)
Tie holes	1x1x1 (25x25x25)	---- ----	~ 500 nos.
Honeycombs + patching	approx. 0.4 ft ³ (0.011 m ³) / bag		

All above values are approximate depending on surface conditions.

TYPICAL APPLICATION



Application

⇒ Do not apply MORTAR-IC at temperatures below 40° F (5° C) or to a frozen substrate. This product is not recommended for use in expansion or contraction joints.

Cracks / Seal strips (Reglets & Coves):

After proper surface preparation and routing to appropriate configuration, prime areas to be patched or repaired with a slurry coat of AQUAFIN-IC and while "green" (tacky), fill cavity flush to surface with MORTAR-IC in mortar consistency.

Spalled and Honey Combed Areas:

Prepare surface and chisel back to sound concrete. Prime areas to be repaired with a slurry coat of AQUAFIN-IC and while "green" (tacky), apply MORTAR-IC in layers of 1/2" (12.7 mm) until desired profile is obtained.

NOTE: AQUAFIN-IC should be applied as a surface treatment as soon as the MORTAR-IC has set (approx. 1 - 2 hours). If this is not practical, leave surface rough for subsequent surface treatment to bond.

Curing:

Provide protection against extreme weather conditions during the setting period.

Storage:

MORTAR-IC must be stored in a dry enclosed area off the ground.

Shelf life in unopened, undamaged bags is 12 months.

Packaging:

50 lbs. (22.7 kg) lined bags or plastic pails.



Certified to NSF/ANSI 61

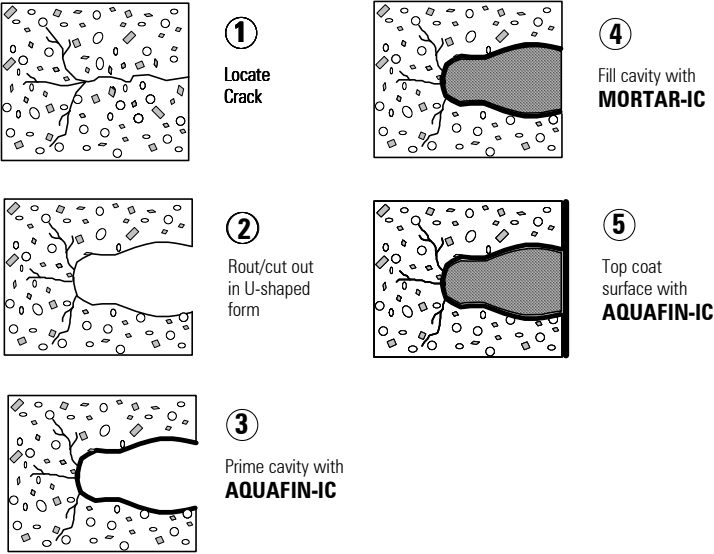
AQUAFIN, Inc.
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DIV. 3 + 7

CONCRETE REPAIR + WATERPROOFING
Capillary/ Crystalline

MORTAR-IC

Typical detail crack repair



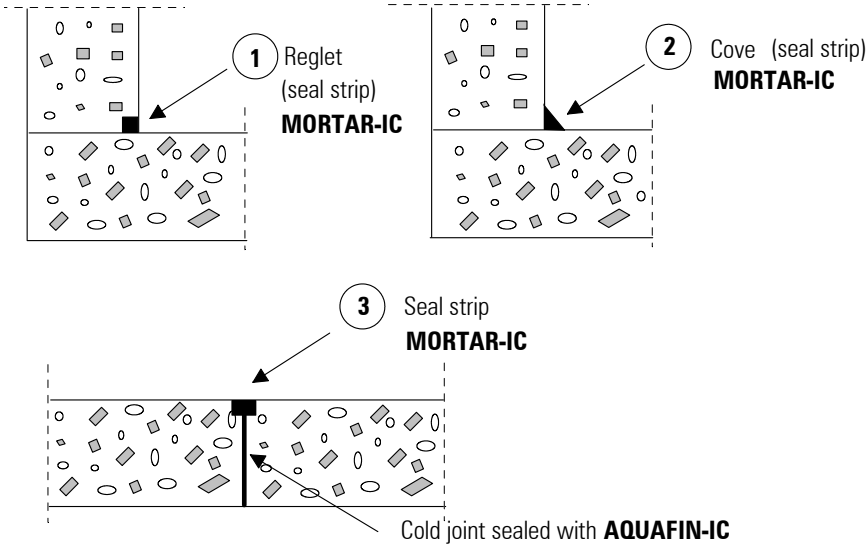
Safety:

Refer to **MSDS**. This product contains Portland cement and silica and is highly alkaline. Do not inhale dust. The use of rubber gloves and goggles during mixing and application is recommended. Avoid contact with skin and eyes. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water and seek medical advice.

KEEP OUT OF REACH OF CHILDREN.

Contact our office or visit our web site to obtain additional waterproofing sketches.

Typical detail sealing of construction joints



LIMITED WARRANTY: AQUAFIN, INC. warrants this product for a period of one year from the date of installation to be manufactured free of defects and to be consistent with its technical properties as stated in our current Technical Data Sheet. This product must be used as directed and within its stated shelf life. AQUAFIN, INC. will replace or at our discretion refund the purchase price of any product, exclusive cost of labor, which is proven to be defective. Our product recommendations are based on Industry Standards and testing procedures. We assume no warranties either written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN, INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

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