

## Highly Flexible Cementitious Protective & Waterproof Coating

- ☑ Waterproofing & crack-isolation membrane
- ☑ Withstands pedestrian traffic
- ☑ Applied above or below grade
- ☑ Available in several colors
- ☑ Elongation 70% (Gray)
- ☑ Potable water NSF/ANSI 61 certified
- ☑ Does not support the growth of mold & mildew
- ☑ Crack bridging up to 1/16" (1.6 mm)
- ☑ Meets or exceeds ANSI A118.10 and 12
- ☑ UV, weather & freeze/thaw resistant
- ☑ Use AQUAFIN-2K/M-S (Smooth) for added surface smoothness
- ☑ Contributes to LEED (EQ 4.2)
- ☑ 30+ years of successful installations.



### Product Description

AQUAFIN®-2K/M (in short "2K/M") is a state-of-the-art load bearing cementitious, acrylic emulsion based highly flexible protective coating and waterproof barrier. This product is two-component (powder Component-A and liquid Component-B) and resistant to water and abrasion. Its liquid mixing component is solvent free. Available in standard gray and white, or several additional colors. Alternatively, it can be painted, top coated or tiled using flexible thin set adhesives. If a sealed surface is desired AQUAFIN-CS/250 clear acrylic sealer can be applied.

"2K/M" is a stand-alone product. It can be top or over coated with flexible or rigid mortars, stuccos or coatings for uniform appearance. It bridges static cracks up to 1/16" (1.6 mm) (positive side applications) at 90 mils (2.4 mm) thickness, and accommodates one-time substrate movement up to 1/16" (1.6 mm). Larger cracks and joints, static (non moving) or dynamic (moving), can be sealed with AQUAFIN JOINT SEALING TAPE-2000 or 2000-S.

**NOTE:** Consider Aquafin DECORFLEX® in lieu of "2K/M" where enhanced aesthetic appearance is desired or car traffic.

Use AQUAFIN-1K (NOT AQUAFIN-IC) as first (base) coat wherever negative side water pressure can be anticipated (i.e. in-ground pools, fountains, tanks, basements, elevator pits, etc.).

### Typical Applications

- ◆ Above or below grade, interior or exterior.
- ◆ Horizontal, vertical, or overhead applications to concrete, cementitious overlays, masonry, brick, parging (render), CBU's (cement backer units), OSB (oriented strand board), gypsum board

(drywall), glass mat faced gypsum sheathing, plywood, steel, PVC, mastic asphalt (interior), roughened polystyrol, properly prepared existing cementitious terrazzo floors, ceramic, porcelain and quarry tiles.

- ◆ Exterior (positive side) waterproofing of new or old below grade foundations.
- ◆ Balconies (stand-alone or under tiles), parapets, planter boxes (excellent root resistance), plaza decks, stadiums, top soil covered roof structures.
- ◆ Mechanical and equipment rooms, pool decks.
- ◆ Fountains, swimming pools and other water features (under tiles or exposed as stand-alone).
- ◆ Underneath flexible thin-set tile mortars (i.e. shower pans, sanitary rooms, kitchens, pools, balconies, etc. See ANSI A118.10 & 12 test results).
- ◆ Potable water, wastewater, sea water and marine aquarium tanks and other reinforced concrete structures.
- ◆ Sealing of cracks and construction joints with joint sealing tapes 2000 and 2000-S
- ◆ Over-coating and sealing of old bituminous dampproofing below grade.

### Advantages

- ◆ Solvent free (0% VOC) & Non-flammable
- ◆ Environmentally friendly, low odor
- ◆ No priming necessary in most cases
- ◆ Breathable (not a vapor barrier)
- ◆ Applied to moist/damp substrates
- ◆ Resists abrasion, mechanical wear & deicing salts
- ◆ Stands up to pedestrian and light traffic
- ◆ Resists strong hydrostatic pressure (tested up to 460 ft. [140 m] water head, positive side)
- ◆ Excellent root resistance
- ◆ Resistant to concrete aggressive water as per DIN 4030
- ◆ Active barrier to carbon dioxide (CO<sub>2</sub>)
- ◆ Permanently flexible - Self curing.

### Substrate Preparation

The substrate must be sound, clean, and free from voids, bug holes, gaping cracks, honey combs, or ridges and open pored (like medium grit sand paper).

1. Remove bond breakers, such as oil, grease, dirt, loose particles, remains of form oils, water repellents, rust or other coatings by high pressure waterblasting or wet or dry sandblasting. **Pay particular attention to sufficiently roughen slab and wall substrates** to ICRI CSP 3 to 5 profile. High pressure water blasting may not be enough. Use mechanical means to prevent "2K/M" from de-bonding!
2. Repair holes, defects, irregular surfaces, weak mortar joints, etc. with MORTAR-LN or MORTAR-40 (fast setting).
3. Round edges at vertical external joints.
4. Close large open pores and joint recesses of CMU blocks and joint unevenness in brick walls with sand/ cement mortar or AQUAFIN-1K.
5. "Sack" (close) bug holes with AQUAFIN-1K.
6. Pre-water substrate (excluding drywall or

similar) with clean water to saturated surface dry (SSD) condition, with no standing surface water.

7. Seal dry, dusty or very absorptive surfaces (i.e. light weight concrete, drywall, gypsum, plywood) with AQUAFIN-CS/250 acrylic sealer, or one coat "2K/M" liquid Component-B, diluted with water 1:4 to 1:5.
8. Roughen fiberglass substrates using diamond cup grinding, zek wheel, wire wheel, etc. and clean with acetone prior to applying "2K/M".

### Mixing

**NOTE:** Up to 20 fl. oz. (0.6 L) water can be added to a 46 lb (21 kg) pail unit and up to 1 Quart (1 L) to a 77 lb (35 kg) bag & pail unit after initial mixing to adjust application consistency.

**A. Mixing ratio by weight = 5 : 2**

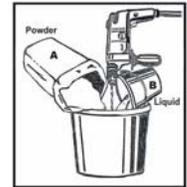
5 lb powder to 2 lb liquid (5 kg : 2 kg).

**B. Mixing ratio by volume = ~ 5 : 3**

approx. 5 parts powder ("A") to 3 parts liquid ("B").

**C. Pour** 2/3 liquid Component-B into a clean container, add "2K/M" powder (Comp-A) and stir to a lump free creamy consistency.

Add remaining 1/3 liquid and mix total 2 - 3 minutes with a strong, slow speed (300 rpm) mechanical mixer.



**D. Pigmenting:** Add and mix liquid pigments to liquid Component-B or powder pigments to powder Component-A prior to mixing Component-A with Component-B.

### Application

**NOTE:** Do not apply "2K/M" at temperatures below 40°F (5°C) or to frozen substrates. Can be applied to 3 day old concrete at >86°F (>30°C) temperature and 5 day old at 60-70°F (15-21°C), or when concrete reaches minimum 2,000 psi (13.8 MPa).

- ◆ **At high air temperatures**, i.e. 86°F (30°C) and above, protect application from direct sun and wind to prevent premature surface drying and shrinkage cracks. Apply material in 2 (two) coats minimum.

- ◆ Use **AQUAFIN®-1K** as 1st coat where negative side pressure from ground or rain water can be expected.

- ◆ Do **NOT** directly apply "2K/M" over AQUAFIN-IC or similar crystalline waterproofing products.

### Application tools:

"2K/M" may be applied by brush, roller, trowel, sponge float or appropriate compressed-air spray equipment (i.e. Inomat-M8, Quikspray, or similar). Surface

## Consumption & Yield

Application Condition:	Min. coating thickness DFT (dry film thickness) inch [mils] (mm)	Application rate lb/y <sup>2</sup> (kg/m <sup>2</sup> )	46 LB PAIL UNIT		77 LB UNIT	
			Appx. Yield ft <sup>2</sup> (m <sup>2</sup> )			
<b>1. Foot traffic:</b> walkways, non-tiled balconies, mech. rooms, planters	~1/16" [60] (1.6)	5.5 (3.0)	75 (7.0)	125 (11.6)		
<b>2. Tiled:</b> balconies, plaza decks	[80] (2.0)	7.3 (4.0)	56 (5.1)	94 (8.7)		
<b>3. Waterproofing above grade:</b> water depth	A. <13 ft (<4 m)	~1/16" [60] (1.6)	5.5 (3.0)	75 (7.0)	125 (11.6)	
	B. 13 - 33 ft (4-10 m)	[80] (2.0)	7.3 (4.0)	56 (5.1)	94 (8.7)	
	C. >33 ft (>10 m)	~3/32" [90] (2.4)	8.3 (4.5)	50 (4.7)	84 (7.8)	
<b>4. Waterproofing, exterior application, below grade structures:</b> (ground) water depth	A. <13 ft (<4 m)	~1/16" [60] (1.6)	5.5 (3.0)	75 (7.0)	125 (11.6)	
	B. 13 - 33 ft (4-10 m)	[80] (2.0)	7.3 (4.0)	56 (5.3)	94 (8.7)	
<b>5. Waterproofing, interior application, below grade structures:</b> 1st (base) coat: AQUAFIN-1K (50 lb bag (22.7 kg)) 2nd (top) coat: AQUAFIN-2K/M	~ 1/16" [60] (1.6)	4.6 (2.5)	98 (9.1)	98 (9.1)		
	~ 1/16" [60] (1.6)	5.5 (3.0)	75 (7.0)	125 (11.6)		
<b>6. Swimming Pools:</b> **)	A. non-tiled	~1/16" [60] (1.6)	5.5 (3.0)	75 (7.0)	125 (11.6)	
	B. tiled or plaster finish	[80] (2.0)	7.3 (4.0)	56 (5.3)	94 (8.7)	
	C. in-ground	Apply rates from item 5. Waterproofing, interior application, below grade structures.				
<b>7. Aquarium &amp; Zoo Tanks:</b> Refer to Spec Sketch No.1.1.3-10.	~3/32" [90] (2.4)	8.3 (4.5)	50 (4.7)	84 (7.8)		
<b>8. Aquafin-2K/M-S (Smooth):</b> 30 lb (13.6 kg) unit in 5 gal (19 L) pail	[20] (0.5)	1.8 (1.0)	145 (13.6)	82 lb = 400 (37)		

\*\* Use Item 5. "Waterproofing, interior, below grade structures" application rates for all in-ground swimming pools, fountains, water tanks, etc. Do not exceed total thickness ~3/32" [90 mils] (2.4 mm) for "2K/M". Please also refer to waterproofing specification sketches no. 1.1.3. All above values theoretical. Variations may apply due to substrate conditions or conversion factors.

can be left brushed or smooth troweled, depending on type of application and project specifications. Immediately smooth over spray applications with the flat trowel edge if textured spray finish is NOT desired.

**Do not** pre-dampen brush or roller with water.

Quantities are dependent on the amount of protection desired.

**Honeycombs & spalled concrete:** repair using structural fast setting MORTAR-40 or structural waterproofing and lining MORTAR-LN.

**Concrete bug holes:** less than 1/4" (6 mm) width and 1/2" (12 mm) depth can be pre-treated with a scratch coat of AQUAFIN-1K to prevent "outgassing". Larger bug holes can be filled with MORTAR-LN.

### Horizontal and vertical joints:

Seal horizontal wall-floor joints and internal vertical corners with JOINT SEALING TAPE-2000.

Alternative: form cove (minimum 1.5" x 1.5" [38 x 38 mm] with MORTAR-LN and use 2K-FABRIC or 2x2 or 4x4-MESH.

### Static cracks:

Repair static cracks with JOINT SEALING TAPE-2000, or rout (cut) out and fill with MORTAR-LN and cover with "2K/M", reinforced with 2K-FABRIC or 2x2 or 4x4-MESH.

### Dynamic cracks and expansion joints:

Seal dynamic cracks and expansion joints

with JOINT SEALING TAPE-2000-S (600% elongation).

### PVC pipe penetrations & stainless steel flanges:

Abrade (sand) PVC pipes and stainless steel flanges and degrease with isopropanol or acetone. Apply "2K/M" and embed SEALING GASKET-18/18 or JOINT SEALING TAPE-2000 as per data sheet.

### Alkali sensitive substrates:

Protect and seal alkali sensitive metal substrates such as copper, aluminum, galvanized or zinc treated metal first with a primer (i.e. KRYLON Primer, or equal) prior to applying (over-coating) "2K/M".

### Reinforcement Fabric or Mesh:

If AQUAFIN-2K-FABRIC or AQUAFIN-2x2 or 4x4-MESH is required for reinforcement of coating, **immediately** embed into fresh (wet) 1st "2K/M" coat. Assure it "wet-tens" (seeps) through. Using a stainless steel trowel, sponge float or similar, smooth out any wrinkles in the fabric/mesh, forcing it down. Cover with 2nd coat "2K/M" after 3 - 5 hrs or next day.

**Note:** 2K-FABRIC and 2x2 or 4x4-MESH substantially reduce elongation and flexibility of "2K/M". From 70% to approx. 10%.

**Protect areas not to be treated from "2K/M".** Hardened "2K/M" can only be removed as per item VII.

**PRIME COAT:** Not required, unless highly absorbent substrate. Refer to "Substrate

Preparation", item 7.

## APPLICATIONS TO BUG HOLE FREE SUBSTRATES:

### I. STANDARD APPLICATION - 60 mils (1.6 mm):

Apply "2K/M" at 60 mils (appx. 1/16" [1.6 mm]) in one coat using a stainless steel trowel or appropriate compressed-air spray equipment. Apply an additional coat over visible defects (i.e. static cracks, etc.).

**Alternatively in windy and sunny conditions:** apply in two trowel, spray, brush or roller coats of 30 mils (0.8 mm) thickness each. Smooth with a trowel if desired.

### II. TWO-COAT APPLICATION - 80 to 90 mils (2.0 to 2.4 mm):

1.) Apply "2K/M" in two coats as specified.

Apply the second coat (or multiple coats) as soon as the first coat has sufficiently hardened (1.5 to 4 hrs) or wait until next day. Do not pre-dampen 1st coat.

**Note:** time intervals > 1 day require sanding/roughening and cleaning with potable water of exposed surface.

Do not apply thicker than 90 mils (2.4 mm) in stand-alone applications.

### III. NEGATIVE SIDE W.P. - 120 mils [1/8"] (3.2 mm):

1.) Apply base coat with AQUAFIN-1K at 60 mils (1.6 mm)

2.) Apply top coat with "2K/M" at 60 mils (1.6 mm).

**Note:** wait minimum 24 hours before top coating "1K" with "2K/M".

#### IV. CMU BLOCK SUBSTRATES - 120 mils [1/8"] (3.2 mm):

Positive or negative waterproofing side:

- 1.) Apply base coat with AQUAFIN-1K at 60 mils (1.6 mm)
- 2.) Apply top coat with "2K/M" at 60 mils (1.6 mm).

**Note:** wait minimum 24 hours before top coating "1K" with "2K/M".

#### V. EXPOSURE\*\*\*) OF APPLICATION TO:

1. rain, vertical surfaces, after approx. 3 hrs.
  2. rain, horizontal surfaces, minimum 6 hrs.
  3. foot traffic after approx. 1 day.
  4. tile mortar and tiles after approx. 1 day.
  5. hydrostatic pressure between 3 - 7 days (after "2K/M" reaching Shore A Hardness 80), check with "finger-nail test".
  6. back filling after approx. 3 days.
- \*\*) at 68°F (20°C) and 60% humidity.

#### VI. SEALING/PROTECTING "2K/M" SURFACE:

In areas such as pool decks, walkways, balconies, etc. where higher than usual surface contamination can be expected, the surface of "2K/M" can be sealed with clear acrylic sealer AQUAFIN-CS/250. The "2K/M" should be cured for at least 1 day before "CS/250" application.

#### VII. CLEAN UP:

Clean tools and equipment with water immediately after use. Cured material can only be removed mechanically or with a soy based paint remover.

#### VIII. CURING:

- ◆ Self curing under normal conditions. **Do not** use water. It may discolor pigmented applications during the fresh stage. However, provide suitable protection against extreme weather conditions while setting.
- ◆ In hot and very dry climates coating may become slightly tacky/sticky during the curing process. After 24 hrs after application mist coating with water to ensure complete hydration of material.
- ◆ Expect prolonged setting and hardening time in rooms with high humidity, poorly ventilated areas and corners (i.e. water tanks). The use of fans will accelerate the setting and curing time.

#### IX. PACKAGING:

AQUAFIN provides the following packaging:

##### A.) 46 lb (21 kg) unit (A + B) inside 5 gal (19 L) pail:

A-Component (powder): 33 lb (15 kg) bag  
B-Component (liquid): 1.5 gal / 13 lb pail (5.7 L / 6 kg).

##### B.) 77 lb (35 kg) bag + pail unit (A + B):

A-Component (powder): 55 lb (25 kg) bag  
B-Component (liquid): 2.5 gal / 22 lb pail (9.5 L / 10 kg).

##### C.) 30 lb 2K/M-S (Smooth) - 5 gal pail:

A-Component (powder): 20 lb (9.1 kg) bag  
B-Component (liquid): 1.1 gal / 10 lb pail (4.3 L / 4.5 kg).

##### D.) 82 lb (37.5 kg) 2K/M-S (Smooth):

A-Component (powder): 55 lb (25 kg) bag  
B-Component (liquid): 3.1 gal / 27.5 lb pail (12.0 L / 12.5 kg).

#### X. SHELF LIFE:

Approx. 12 months for powder Component-A and approx. 24 months for liquid Component-B in unopened packaging, stored dry and frost-free.

#### XI. MISCELLANEOUS:

1. Attach drainage and protection boards after full curing of application (after 3 days). DO NOT mechanically attach.
2. The cured application can be troweled over with parging (rendering / plaster) after 1 day or painted with a vapor open ("breathable"), solvent free paint (non silicate) after 3 days (at 68°F (10° C)).
3. Do not use solvent based adhesives directly on "2K/M".
4. Product can be tinted (pigmented), however, uniformity can not be guaranteed.
5. Do not expose the application to water during the setting time.
6. If application is exposed to intense sunlight work against movement of sun.
7. Carbonation protection and carbon dioxide-screen: 40 mils (1 mm) "2K/M" thickness warrants the same protection as 12" (300 mm) of concrete.
8. Cured "2K/M" is physiologically and ecologically safe.
9. Do not pre-dampen "2K/M" when over coating with the same or another product.
10. **Swimming pools:**  
**Note:** "2K/M" regular contains a semi-coarse quartz aggregate for non-slip and high abrasion resistance. Alternatively, top coat "2K/M" with 1—2 coats "2K/M-S" (Smooth) at 10 mils (0.25 mm) thickness each, where a smoother finish is desired.  
Do not apply "2K/M" in direct sun light or wind. Protect with temporary "tenting" or other means.
  - a. Old substrates: "2K/M" can be applied over sound, roughened old pool plaster. However, a test application is strongly recommended to confirm suitability of the substrate.
  - b. Top coating: "2K/M" applied over new substrates can be top-coated with most

standard, cementitious pool plasters. Let "2K/M" cure for minimum 3—5 days before applying any cement based top coats over it. Assure that proper measures are taken to avoid shrinkage of the overlaying top coat. A test application is highly recommended to confirm compatibility. Do not pre-dampen "2K/M" prior to application of a top coating. Be aware that internal stresses of shrinking pool plaster can negatively affect the bond to "2K/M".

- c. Stand-alone pool coating: "2K/M" can be used as a "stand-alone" pool coating using "2K/M WHITE" or "2K/M BASE WHITE pigmented". Apply as per items I + II. for above ground pools and as per item III. for in-ground pools.
- d. Tiled pools: If a "brown" or leveling coat of 1" - 2" (25 - 50 mm) thickness is installed, apply "2K/M" on top of it, followed by a flexible thin-set tile mortar.
- e. Construction + Movement joints: assure that construction + movement joints in tiles and pool plaster are foreseen as per industry standards such as per ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints-Vertical & Horizontal". Do not cover expansion joints with a rigid product.
- f. Filling of swimming pools with "2K/M" as finish coat: between 3 - 7 days (after "2K/M" reaching Shore A Hardness 80), check with "finger-nail test"
11. **Potable water holding tanks:**  
Fill tanks after a curing period of 7 days and keep full for 3 days minimum.
12. **Marine aquarium and zoo tanks:**  
Refer to Waterproofing Specification Sketch No.1.1.3-10.
  - a. Surface finish ("2K/M" stand-alone):  
Use regular "2K/M" for all standard applications. Alternatively, top coat "2K/M" specified thickness with 2 coats "2K/M-S" (Smooth), at 2x10 mils (2 x 0.25 mm) thickness where a smoother finish is desired.
  - b. Structure coat containing waterproofing admixtures: verify with admixture manufacturer that cementitious top coatings will bond to the concrete surface prior to installation of "2K/M". Aquafin recommends AQUAFIN-IC ADMIX.
  - c. Overlaying texture coat:  
Let "2K/M" cure for at least 3—5 days before applying texture coat. Assure that proper measures are taken to avoid shrinkage of the overlaying "texture coat". Internal stresses of shrinking "texture coat" can negatively affect the bond to "2K/M", or the integrity of the "2K/M".

Physical & Technical Data	
<b>Dry Powder Component-A</b>	
Aggregate State:	Powder (asbestos free)
Colors:	standard Gray, White & Base White
Bulk Density:	-88 lb/ft <sup>3</sup> (-1.4 kg/dm <sup>3</sup> )
VOC:	0% (0 g/L)
<b>Liquid Component-B</b>	
Aggregate State:	Liquid
Color:	White
Density at 68°F (20°C):	-8.74 lb/gal (-1.05 kg/L)
pH-value:	7.5
VOC:	0% (0 g/L)
<b>AQUAFIN-2K/M: wet mix</b>	
Color:	standard Gray, White & Base White additional pigments Several colors (see color chart)
Density of wet mix:	-94 lb/ft <sup>3</sup> (-1.5 kg/dm <sup>3</sup> )
Pot life (approximate):	60 min. at 73° F (23° C) 60% RH 20 min. at 95° F (35° C) 65% RH
Application Temperature:	40° F to 95° F (+5° C to +35° C)
VOC:	0% (0 g/L) for standard colors
<b>AQUAFIN-2K/M: hardened</b>	
Color:	Gray, White or pigmented
Shore 'A' Hardness:	- 85 (ASTM D-2240)
Service Temperature:	◆ Traffic: 5° F to 122° F (-15° C to +50° C) ◆ Non-traffic: -4° F to 140° F (-20° C to +60° C)
Elongation at rupture at 1/12" (2 mm) thickness: (ASTM D-412-98a)	70% Gray at 73° F (23° C) 40% White (all without fabric)
Crack Bridging Capacity:	1/16" (1.6 mm) at 80 mils DFT
Tensile Strength: (ASTM D- 412-98a)	600 psi (4.2 MPa) @ 80 mils (2 mm) thickness at 73° F (23° C)
Adhesion to concrete: (ASTM C-297 modified)	145 psi (1.0 MPa) @ 7 d 215 psi (1.5 MPa) @ 28 d
Abrasion Resistance: (ASTM D-4060)	109 mg/1000 cycles, CS-17 wheel (Taber 5150 Abrader)
Rapid Chloride Permeability ◆ Unretarded control: ◆ 80 mils (2 mm) thickness: Percentage Reduction:	Chloride Penetration: 3750 Coulombs 509 Coulombs 86% (ASTM C-1202.97)
Flammability: (ASTM E-108)	Passed - Class A, Spread of Flame
Static Coefficient of Friction: ◆ Dry: with sealer CS/250 ◆ Wet: with sealer CS/250	Non-slip - (ASTM C-1028) 1.2 (ADA: 0.8 for ramps) 0.9 (ADA: 0.6 or higher)
Vapor Permeability ◆ 1/16" (1.5 mm) thickness: ◆ 3/32" (2.4 mm) thickness: ◆ Untreated control:	(ASTM E-96) 2.3 perms 1.4 perm 10.3 perms
Water Permeability: (CRD-C 48-92 at 60 mils (1.6 mm) thickness)	No measurable leakage up to 200 psi (460 feet (140 m)) head pressure (positive side).
Root Resistance: (EMPA test)	No punctures, tested with Lupinus albus



Potable water approved: certified to NSF/ANSI Standard 61, in conjunction with JOINT SEALING TAPES-2000 + 2000-S. See [www.wqa.org](http://www.wqa.org).

**For professional use only. Not for sale to or use by the general public.**

"2K/M" Test Results for Adhesion of Tiles	
ANSI A118.10 test results	
Fungus & Micro-Organism Resistance: test period 14 d	Fungus: Aspergillus Niger Pass. No growth was observed
Seam Strength: (ASTM-D 751)	14.9 lb (6.8 kg) = Pass Requirement 8 lb (3.6 kg)
Breaking Strength: (ASTM-D 751)	677 psi (4.7 MPa) = Pass Requirement 170 psi (1.2 MPa)
Dimensional Stability: +158°F (70°C) -15°F (-26°C) (ASTM-D 1204)	Pass 0.000% 0.000% Requirement: 0.7% maximum
Waterproofness: (ASTM-D 4068-99)	Pass 2'(0.6 m) water column over 48 hr
7-Day Shear Strength: (ASTM-C 482-1996)	107 psi (0.74 MPa) = Pass Required = 50 psi
7-Day Water Immersion Shear Strength: (C 482)	86 psi (0.59 MPa) = Pass Required = 50 psi
4-Week Shear Strength: (ASTM-C 482-1996)	107 psi (0.74 MPa) = Pass Required = 50 psi
7-Week Shear Strength: (ASTM-C 482-1996)	114 psi (0.79 MPa) = Pass Required = 50 psi
100-Day Water Immersion Shear Strength: (C 482)	166 psi (1.15 MPa) = Pass Required = 50 psi

ANSI A118.12 test results	
Point Load Resistance Test:	Pass (after 28 day cure)
Compressive Strength:	5,000 psi (34.5 MPa) calculated from Point Load Resistance Test
System Crack Resistance Test:	Standard Performance Requirement 1/16" (1.6 mm) = Pass
Adhesion to Steel:	250 psi (1.7 MPa) cohesive failure (in-house testing) (ASTM D-4541)

All data are averages of several tests under laboratory conditions. In practice climatic variations such as temperature, humidity, and porosity of substrate may affect these values.

**XII. LIMITATIONS:**

- ◆ Do not use as an adhesive to install ceramic tile or natural stone.
- ◆ Do not use in lieu of a roofing membrane over occupied space in freeze/thaw areas.
- ◆ Negative water pressure, if exposed to freezing, such as in above grade perimeter or parapet walls, can create spalling of the application or the exposed wall face.

**XIII. MAINTENANCE:** Mechanically damaged "2K/M" can be easily repaired by thoroughly cleaning (sanding) the surface and reapplying a new coat of "2K/M".

**NOTE:**

Installer is responsible for proper product application. Site visits by Aquafin personnel

Chemical Resistance	
Acid Solution (pH 2.5)	*)
Alkali Solution (pH 11.5)	*)
Aqueous ammonia	+
Aqueous magnesium sulfate	++
Aqueous sodium chloride solution	++
Aqueous sodium hydroxide	+
Aqueous sodium sulfate	++
Citric acid	-
Diesel	++
Formic acid	-
Fuel (hydrocarbons, benzene containing)	-
Hydraulic Oil	++
Inorganic acids	-
Mineral oil	-
Olive oil	++
Salt water (Sea water) & Marsh Water	++
Sewage (domestic)	++
Silage	++
Solvent (90% Acetone)	*)
Transformer oil	++
Water	++
++ = Long Term - Permanent Resistance	
+ = Short Term Resistance - splashes and spills	
- = Not Resistant	
*) = Slight discoloration after 48 hrs (ASTM D-543 spot test)	

or representatives are solely for the purpose of making technical recommendations, not for providing supervision or quality control.

**XIV. SAFETY:**

**Refer to MSDS.** For commercial use only. **A-Component (powder)** contains sand (crystalline silica) and Portland cement and is highly alkaline (irritant) in contact with water. Prevent inhalation of dust before and during mixing with liquid Component-B.

**B-Component (liquid)** contains no hazardous materials. Use rubber gloves and goggles during mixing and application. Avoid contact with eyes and skin. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water and seek medical advice. In case of handling large quantities, provide good ventilation if indoors. **KEEP OUT OF REACH OF CHILDREN.**

**LIMITED WARRANTY:** AQUAFIN, INC. warrants its products to be manufactured free of defects and to be consistent with its standard high quality. We will replace or, at our election, refund the purchase price of, any product which is proven to be defective, provided that the product was properly applied. 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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