DELTAShield

Aqualine AL



T E C H N I C A L D A T A S H E E T

One product, one application, aliphatic, flexible, seamless waterproofing membrane

Description

Aqualine AL is a two component, spray applied, fast curing, high performance elastomeric waterproofing membrane that can be built to any thickness in one application. It is ideal for swimming pools, lagoons and water bodies where the requirement of color stability is required in an elastomeric coating.

Aqualine AL is UV and colour stable, suitable for pedestrian and vehicular traffic and can be installed with slip resistant surface profile options.

Aqualine AL is specifically formulated for applications where the highest physical performance is required along with colour fastness to ensure functionality and aesthetics.

Features

- Fast spray applied installation speed
- Fast curing touch dry
- Seamless coating
- Excellent adhesion to substrates
- Resistant to chemicals
- Designed for extreme climates
- 100% solids, VOC and solvent free
- Impact resistance
- Excellent crack bridging properties
- High elongation at break
- Bond strength
- Thermally stable
- Tensile strength
- No top coat required

Typical uses

 Single product, one application, UV and colour stable, seamless waterproofing, elastomeric membrane for pools, resort lagoons, artificial beaches and all marine applications





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Product information

Processing properties	Data
Mixing ratio A : B (by volume)	1: 1
Dry film thickness range [mm]	Steel Minimum: 1 Maximum: indefinite
(For project specific DFT recommendations consult with manufacturer)	Concrete Minimum: 2 Maximum: indefinite
Tack Free-Time at 20° C [sec.]	300 - 480
Over coat cycle (without any pre-treatment) [h]	0-12
Curing/loading after [h]	Walkable: 1 Mechanical: 2 Chemical: 12 - 24
Temperature range for application (ambient) [° C]	-10 - +50
Temperature range for application (substrate) [° C]	-10 - +50
Material Temperature (Preconditioning) [° C]	25 – 30
Material Temperature (Spraying) [° C]	65 – 75
Maximal relative air humidity for application [%]	98
Dew point limit	Substrate should be 3° C > dew point
Storage conditions (closed original drums, dry & covered place) [° C]	10 – 30
Shelf life (unopened and stored correctly) [year]	1



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Physical properties	Data	
VOC [%]	ASTM D-1259	0
Solids [%]	ASTM D-2697	100
Viscosity [mPa*s] @ 25° C	ASTM D-4878	Comp. A: 500 – 700 Comp. B: 400 – 600
Density [g/cm³] @ 20° C	ASTM D-1217	Comp. A: 1.03 – 1.07 Comp. B: 1.02 – 1.06
Density [g/cm³]	ASTM D-792	1,01 ± 1,05
Tensile strength [N/mm²]	ASTM D-638-22	≥ 20 ± 2
Elongation at break [%]	ASTM D-638-22	≥ 500
Hardness [Shore D]	ASTM D-2240-15(2021)	50 ± 5
Tear strength[N/mm]	ASTM D624-00(2020)	85 ± 5

- DELTA recommends in all applications involving chemicals a pretest of the lining's suitability in the customer's application is conducted. Consult with DELTA Technical Team
- All data depends on site conditions. Ambient temperatures, substrate temperatures and humidity will all influence stated data Film thickness and application techniques can also affect the stated data
- Cold temperatures will result in slower curing times and high temperatures will increase reactivity and reduce curing times relative to the stated data



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Physical properties	Data	
Abrasion resistance [mg]	ASTM D-4060-19	< 5.5 (Wheel CS17 / 1000g / 1000 Cycles)
Pull off strength [N/mm²]	ASTM D-4541	Concrete: ≥ 1,5 Steel: ≥ 6
Water vapor transmission rate [g/m²/24hours]	ASTM E96-22	5 (at 23° C a. 50% relative humidity)
Resistance to root penetration	TS 14416:2014	No root penetration
Weathering resistance	ASTM D-714-02(2017)	No cracking, chalking, flaking, wrinkling, blistering
Color change	ASTM D-714-02(2017)	No changes observed
Dry slip resistance [PTV value]	BS 7976-2(2002) + A1(2013)	92
Wet slip resistance [PTV value]	BS 7976-2(2002) + A1(2013)	72

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TECHNICAL DATA SHEET

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Application notes

- A q u a l i n e A L should be applied in strict accordance with project specific application methodologies recommended by the manufacturer
- A q u a l i n e A L can only be applied using high pressure heated plural component spray reactors, such as Graco EXP2/3, by professionally trained and approved applicators
- Substrate should be cleaned and prepared prior to the application of Aqualine AL, in accordance with the manufacturers written specifications
- In ambient temperatures below 15° C chemical drums should be pre-heated using band heaters to 30 40° C
- The B-side component should be thoroughly power stirred prior to the commencement of spraying and periodically during the spraying process to ensure there is no settling out of the B-side chemical components
- The Pigment is always mixed into the B-side using a power stirrer
- Both the A-side and B-side drums should be fitted with desiccant dryers
- Compressed air supply should be supplied via an air dryer
- Primary heaters should be set between 65 75° C. Adjustments can be made on-site based on environmental conditions, mixing module size and application circumstances
- Hose heaters should be set at 70° C. Adjustments can be made on-site based on environmental conditions, mixing module size and application circumstances

Safety & handling

- All applicators of Aqualine AL should be trained and approved by the manufacturer
- Spray applicators should wear appropriate PPE including approved breathing equipment, eye wear, Nylex or similar light weight spray suit and appropriate covered footwear
- Avoid breathing in vapors during spraying or when handling chemicals
- Avoid eve and skin contact
- Store chemical drums in a cool dry environment. Avoid storing chemicals for long periods in direct sunlight
- Do not store chemicals next to food stuffs
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture

Technical services

• Detailed technical assistance and further information regarding this system and its relevant application specifications are available from DELTA Technical Services

Packaging

• Aqualine AL is supplied in 40 or 400 Liter sets

• Component A: 20 or 200 Liter

• Component B: 20 or 200 Liter



All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own investigations and testing, the suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. Due to the large number of variables that can affect the product and the application process that are out of the control of DELTA Coatings International LLC no warranty of any kind, express or implied is given. The liability of DELTA Coatings International LLC for any claims is limited to the purchase value of the material.

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