

## Waterproofing Systems / Acrylic Based

# AKRILAN® 600

Acrylic Based UV Resistant Flexible Liquid Membrane

Approved by METU Chemical Engineering Dept.  
according to BS 6920 Standard  
for potable water contact compatibility  
Report no: 2009.03.04.718/04

## DESCRIPTION

Acrylic (elastomeric) resin based, single component, **UV resistant**, flexible waterproofing material.

## APPLICATION AREAS

- Indoor and outdoor,
- Horizontal and vertical surfaces,
- On various surfaces such as reinforced concrete, galvanized, zinc, aluminium and sheet iron,
- Wet areas such as bathrooms and kitchens,
- Flat and inclined roofs,
- Chimney sides, hidden gutters, eaves, gutters,
- Terraces and balconies.

## TECHNICAL PROPERTIES

|                                             |                                                                    |
|---------------------------------------------|--------------------------------------------------------------------|
| Appearance                                  | White colored acrylic copolymer liquid                             |
| Liquid Density                              | ~ 1.35 kg/L                                                        |
| Application Temperature                     | Between +5°C and +35°C                                             |
| Elongation at Break                         | > 600% 14 days                                                     |
| Capillary Absorption and Water Permeability | $w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (EN 1062-3) |
| CO <sub>2</sub> Permeability                | CO <sub>2</sub> S <sub>D</sub> > 50 m (EN 1062-6)                  |
| Water Vapor Permeability                    | Class I S <sub>D</sub> < 5 (EN ISO 7783-2)                         |
| Waiting Time Between Layers                 | 4 hours (20°C)                                                     |
| Time to Use                                 | 5 – 7 days                                                         |
| Service Temperature                         | Between -20°C and +80°C                                            |

## ADVANTAGES

- Ready-to-use.
- Very elastic, even at low temperatures.
- Applied easily and quickly with a brush or a roller.
- Provides high adherence.
- Water vapor permeable, allows the surface to breathe.
- Can be overpainted with water based paints.
- Resistant to UV.**
- Can be produced in various colors upon request.
- Does not form joint.
- Does not contain solvent, non-toxic. Suitable for use in contact with potable water.

## CONSUMPTION

1.4 kg/m<sup>2</sup> for 1 mm thickness.  
It is recommended to apply minimum 2 layers.  
For stronger protection, it is recommended to apply 3 layers.

## PACKAGING

5 kg and 15 kg plastic buckets

## APPLICATION

### PREPARATION OF THE SURFACE

- The surface must be cured.
- The surface must be clear of materials that prevent bonding, such as dust, oil, tar, paint, silicone, curing materials, detergents and mold oils.
- Repair the weak parts of the concrete, remove poorly adhered plasters; make the surface sound and solid. Repair the static cracks in the building with a plaster with **AQUALATEX** or **REPAIRGROUT EXPAN High Strength Shrinkage-Free Grout Mortars**. Fill the dynamic (moving) cracks with **FIXA's** appropriate MS, hybrid or polyurethane sealants. Block water incoming holes with **AQUASTOP**.
- Bevel the corners.

### APPLICATION

- Apply at least two layers of AKRILAN 600 on the surface with a brush or roll, 1 – 1.5 mm in each layer.
- It dries in 4 – 5 hours depending on the weather conditions. Do not apply the second layer before the first one is completely dry.
- Use load bearers such as **IMPERMO Waterproofing Mesh** or felt between the layers against water pressure or in walkable roofs.
- It gains mechanical strength in 5 days, becomes water impermeable in 7 days. It reaches its final strength in 14 days.
- Sunblast before the last layer is dry to increase adherence in applications to be overcoated.
- Protect against punctures and impacts.

### COLORING AND PAINTING

AKRILAN 600 is white but can be produced in various colors upon request. It can be colored with water based paste type pigments during application. It can be overpainted with acrylic based facade paints.

### CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind.
- Do not use for waterproofing water tanks, swimming pools and foundations that are continuously exposed to water pressure.
- Avoid contact with surfaces such as metal and glass as it can cause permanent stains.
- Do not apply in moist and wet surfaces.
- Cover the lid of the bucket when application is finished or paused.

### SHELF LIFE

Expires in 12 months. Store unopened packages in a dry environment between +5°C and +25°C. Stir well before use. Protect against freezing.



## Technical Data Sheet (TDS)

Form No: 5.01 TDS Akrlan 600  
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### HEALTH AND SAFETY

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.