

# AquaArm SPU SPL

Single Component, Moisture Cured, Polyurethane Waterproof Coating



## TECHNICAL DATA SHEET

### Product Description

AquaArm SPU SPL is single component moisture-cured high polymerized polyurethane based, bitumen free waterproof coating. It can react with the moisture in the air and forms a non-toxic and highly elastomeric waterproof coating.

### Uses

- Concealed Roof, podium areas
- Underground Structures like Retaining walls
- Bath room and other wet area water proofing works
- Non-potable water retaining structures

### Features and Benefits

- Single component and ready to use. It avoids the quality instability induced by the inappropriate mixing of multi components
- Possesses the property of resistance against heat aging, Chemical ingress, fatigue and has high and low temperature flexibility
- Environmentally-friendly

### Application Methodology

#### Step no 1: Substrate Preparation

##### All Surfaces

The substrate to be coated shall be strong, smooth, clean and dry. Any defects in concrete viz. depressions, honey comb shall be treated with Polymer modified mortar as per manufacturer's recommendation.

The external and internal corners are made to be arc. Internal corner:  $D \geq 50\text{mm}$  External corner:  $D \geq 10\text{mm}$ . Brush the first layer then pave the non-woven reinforced layer. Permeate the reinforced layer with the material thoroughly.

#### Step no.2: Primer Application

Apply FloArm Primer PUDC on dry concrete surface (ensure moisture level does not exceed 5%) by the help of brush or airless spray.

Recommended \*Coverage 200 – 400 gms / m<sup>2</sup> – single coat application, touch dry surface dry in approx. 30 min at 27°C, Relative humidity 50%.

(\*dosage depending upon surface condition at porous surface dosage may increase).

#### Step no 3: Product Application

Firstly, apply the stirred polyurethane waterproofing coating over special positions like the external and internal reinforcement as well as the orifice of the through-wall pipe. Apply the first coat using a brush or roller and ensure coating spreads evenly the substrate. Application of the second coat shall be done once the first coat is cured. Recoating time will be around 12 hours at 28 deg c

The second coat shall be in the perpendicular direction to the first coat.

The coating shall be covered with protective screed. Care should be taken to avoid any damage to coating while providing protection systems.

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Waterproof Coating

## Technical Data

S.No	Item	Index
1	Colour	Black
2	Features	Uniform sticky liquid
3	Viscosity@27 <sup>0</sup> C	8000 mPa.s ± 2000
4	Density	1.45 ± 0.05
5	Surface drying time	≤12 h
6	Fully drying time	≤ 24 h
7	Shore A hardness	≥50

Item	Mean Value	Test Method
Solid content	≥90 %	ASTM C 836
Tensile strength	≥2.0 MPa	ASTM D412, modified
Elongation at break	≥500 %	ASTM D412, modified
Peel adhesion to concrete	≥2.0 N/mm	ASTM D903, modified
Hydrostatic pressure resistance (0.7 MPa, 1h)	No water leakage	ASTM D5385-1993, modified
Low temperature flexibility	No cracking	ASTM D1970-01
Tear resistance	≥15.0 kN/m	ASTM D573-04(2019) ASTM D624-00(2012)
Puncture resistance	≥90 N	ASTM D4833/D4833M-07(2013)
Crack bridging ability	≥2 mm	CE EN 14891:2012
Service Temperature	-20°C to 65°C	

## Coverage

Theoretical coverage : approx 1.50 kg / m<sup>2</sup> for 1mm DFT.  
Practical coverage may vary depending on surface  
conditions at site.

## Packaging

25 kg / pail.

## Attention

- Once opened the material shall be used within 30 minutes. Long-term storage will result in a thin film formation on the surface. The same shall be removed before application.
- Keep the storage area / construction site well ventilated. The operator should wear protective equipment such as safety helmet, gloves and working shoes. Avoid spillage on eyes and skin which could cause irritation. The material shall be away from fire source.
- Avoid application of the coating in snowy, rainy conditions and during sand storms. Application shall be done at temperatures 3 degree above dew point.
- This Product does not have root resistance property.

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#### Storage and Shelf Life

- Do not store product in exposed to weather and sun.
- When stored in a cool, dry and protect area, sealed pail has a 6 months shelf life.
- Store this product in dry(moisture free) and shaded area.
- A thin layer of skinning is considered normal and will not affect the performance of the product.
- This product needs to be transported and stored in inverted position (upside down) on pallet as shown in the below image.



#### Limitations

AquaArm SPU SPL should not be applied on surfaces with a risk of rising dampness and should not be applied at temperature below 5°C minimum application life for the opened pack is up to 3 hours if stored in closed and dry container.

Water test should be done after the membrane is fully cured.

During the peak temperature of the day in the summer season, working area should be covered to prevent direct sun effects.

#### Product Categories Available



#### Legal Note

The information and in particular the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, The difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.