

AquaArm InsuSpray PUF B2

Spray applied rigid, closed cell, polyurethane foam for roof thermal insulation



TECHNICAL DATA SHEET

Product Description

AquaArm InsuSpray PUF B2 is two component, CFC and HCFC free rigid Polyurethane foam designed for highly efficient thermal insulation with ease of application. It forms a continuous insulation and air sealing barrier on walls, roofs, around corners, and on all contoured surfaces. It is made by mixing and reacting unique liquid components at the job site to create foam.

The Seamless and Monolithic nature of the sprayed foam provides a full proof method of sealing cracks and rendering any surface moisture resistance and draught proof. The closed cell foam has a low water vapour transmission properties and also inhibits ingress of moisture.

Uses

Thermal insulation for terraces of residential / commercial buildings & for specific industrial structure insulation requirements

Features and Benefits

- Insulates, seals gaps and forms moisture and vapour barrier
- Seamless & Water resistant
- Strong & Light Weight
- Excellent adhesion
- Ideal for irregularly shape of the structure
- Easy to handle & faster application
- Fire resistance: Confirms to DIN 4102-1 B2 classification
- Suitable to coating with MYKA Polyurea products
- Provides thermal comfort and energy savings

Application Methodology

Primer:

AquaArm Primer PUDC can be applied by brush, roller, squeegee or airless spray. Surface to be primed is to be free from moisture, oil, dust, debris and loose concrete. Prime the surface with anti-root primer cum sealer with AquaArm Primer PUDC @ 5 -7 sqm/litre depending on the porosity of the surface.

Apply AquaArm Primer PUDC on clean dry surface by brush, roller squeegee or airless spray. Surface dry it takes about 30-45 minutes depending on temperature and relative humidity. Recoating time within 24 hours Container once opened to be completely used.

Product Application:

The process of applying AquaArm InsuSpray PUF B2 spray eliminates separate fixing procedures. AquaArm InsuSpray PUF B2 is sprayed with the help of two component GRACO machines, which are capable of maintaining the mix ratio at +/- 2% accuracy and controlling the component temperatures at precisely the optimum range.

On roof work the insulation effect of the foam reduces thermal movement of the roof deck and helps prevent failure of the roof covering. Far from being confined to flat surface, spray applied AquaArm InsuSpray PUF B2 is ideal for curved and irregular surfaces.

Although the foam forms a weather resistance membrane, a final coating is required as an additional protection against UV radiation in exterior applications. In the same way as any other organic material, polyurethane foam can eventually be attacked by the ultraviolet rays of the sun, hence a protective coating is necessary within 7 days.

Technical Data

Test Parameter	Units	Observation	Test Standard
Core Density	Kg/m ³	45 to 50	ASTM D 1622
Dimensional Stability (70°C, 48 Hrs)	%	< 2	ASTM D 2126
Thermal Conductivity	W/m.K	≤ 0.023	ASTM C 518
Compressive Strength	KPa	>300	ASTM D 1621
Tensile Strength	KPa	>400	ASTM D1623-2017
Closed Cell Content	%	96 ± 2	ASTM D 2856 / IS 11239(5)-2009
Application Substrate Temp. Range	°C	15 to 40	
Water absorption (23°C, 96 Hrs) by V/V	%	< 2.5	ASTM D 2842
Fire resistance		Class B2	DIN 4102-1

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Processing parameters

Block Temperature +40°C to +45°C

Hose Temperature +40°C to +45°C

Volume ratio 1:1

Pressure 100 - 110 bar

DIRECTIONS FOR USE

- The surface on which spray foam is to be done must be free from loose particles, voids and cracks. The surface must be free from oil and grease.
- Any surface undulations, cracks and crevices must be duly filled or repaired with primer.
- Applicators must evaluate the climatic conditions prior to application to ensure the highest quality foam. Ambient air and substrate temperatures, moisture, and wind velocity are all critical for foam application that decides the quality of foam.
- The substrate must be dry at the time of application. Moisture in air, air etc may react with the chemical component affecting the physical properties of foam. Hence care should be taken.
- Wind also interferes during application affecting the foam properties.
- If components are maintained at lower temperature than required then viscosity will be high. Material may be required to be heated as high viscosity may cause pump cavitation resulting in unacceptable SPF application. If components are maintained at higher than required temperature then there may be loss of blowing agent resulting in diminished yield.
- In case it is needed to heat up the material in the drum using circulation through machine keeping heater on, it should be ensured that the temperature of the polyol should not be more than 30°C. Whereas suitable higher temperature of the heater can be maintained during application when the material is being applied.

Consumption

3.29 Kg/Sqm @ approximately 60mm foam thickness
Recommended consumption may vary as per the substrate conditions.

Note:

The given information is as per controlled conditions. It is recommended to do a field trial to ascertain actual consumption and methodology prior to large scale application.

Consult MYK Arment Technical Services team for product specification or for any other guidance.

Packaging

AquaArm InsuSpray PUF B2 COMP A:-210KGS

AquaArm InsuSpray PUF B2 COMP B:-250KGS

Storage & Shelf Life

Store at room temperature in sealed drums. Moisture will react with this component to produce a surface skin of polymerized material. Protect from moisture and moisture vapour.

Maximum permissible storage time is 6 months.

The ideal storage temperature is between +20°C and -25°C

Waterproofing System

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Health & Safety

- During application wear protective clothing, gloves and eye goggles during application. Avoid product to contact eyes and skin.
- Skin Contact: Wash immediately with plenty of clean water, use kerosene or mineral turpentine when the product has dried.
- Eye contact: In the event of eye contact splash plenty of clean water immediately and seek medical advice.
- Refer Product MSDS.

Limitations

For use on plastic surfaces, adhesion testing should be carried out prior to application. Contact the local MYKA office for advice.

Do not proceed with application if substrate is below 15°C or is wet, if the surface temperature is <3°C above the dew point or if precipitation is imminent. Contact MYKA office for advice.

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.

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