



STARproof

WF AC-600

Product Data Sheet



PRODUCT DESCRIPTION

STARPROOF WF AC-600 is a special synthetic resin based waterproof coating. Because of its excellent flexibility and thixotropic nature, it is an ideal for use on vertical as well as horizontal surfaces.

APPLICATION

- Waterproofing for roofs ranging from asphalt, asbestos cement, to concrete, terrazzo tiles and also on spray applied PU Foam Insulation
- Recommended for both horizontal and inclined Structures
- Can be applied not only to concrete but also to wood and metal surfaces
- Waterproofing membrane for FLAT ROOFING SYSTEMS (Traditional and Inversed)

ADVANTAGES

- Environmentally safe
- Easy application
- Excellent UV resistance
- Suitable to most of the surfaces
- Good coverage
- Resistant to the abrasion or light pedestrian traffic

DIRECTIONS FOR USE

Surface Preparation:

The surface must be clean, dry and free from dust.

Cementitious Substrate:

Concrete and cementitious substrate to be well compacted and at least 28 days old with troweled finish.

Weak concrete must be completely removed by mechanical means to achieve an open textured surface and all surface defects such as blow holes and voids must be fully exposed and properly repaired to substrate and filling of joints, blow hole/voids and surface levelling must be done.

High spots must be removed by for example grinding. Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in subsequently applied coatings. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any coating work.

TECHNICAL SPECIFICATION

Color	White Viscous Liquid
Solid Content, % (ASTM-D 1076)	60 - 67
Viscosity, Cps @ 25°C, S 6, rpm 20	30,000 – 40,000
Specific Gravity, g/ml (ASTM 1475-16)	1.25 – 1.35
Hardness Shore A (ASTM-D 2240)	32 - 40
Application Temp., °C	Minimum +5
Elongation Break, % (@ 25°C) (ASTM –D 412)	819
Tensile Strength, N/mm ² (ASTM –D 412)	1.83
Water vapor transmission, g/hr/m ² (ASTM E- 96)	0.19
Service Temperature, °C (ASTM-491)	-5 to +100
Coverage, kg/m ² (ASTM C 4075)	1 (for 0.5 mm dry film thickness)
UV Resistance, hrs. (ASTM D 822)	10,000 (No deterioration or color fade)
Flash point	Non-flammable
Cleaning	Brushes, tools and other equipment should be cleaned with water while wet.

Applying the Starproof WF AC-600 either when the concrete temperature is falling or stable can reduce outgassing.

Prime the substrate before applying Starproof WF AC-600

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Brick and stone Substrate:

Mortar joints must be sound and flush pointed. Use localized reinforcement over connection joints and prime before applying Starproof WF AC-600

Bituminous felt:

Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate.

Bituminous felt should not contain any badly degraded areas and be primed before applying Starproof WF AC-600

Metals:

Metals must be in a clean sound rust free condition. Metals surfaces must be free of oil and greases.

Abrade exposed surfaces to reveal bright metal. Use localized reinforcement over joints and fixings.

Wood panels should be solidly fixed and cleaned Dry and free from dust or rust and oil residue

Asphalt roof surfaces must be at least one year old and load bearing

Paints/Coatings:

Ensure the existing material is sound and firmly adhered. Remove any oxidized layers and use localized reinforcement over joints.

MIXING

Prior to application, stir Starproof WF AC-600 thoroughly for 1 minute in order to achieve a homogeneous mixture using a slow speed (330 - 500 rpm) drill and basket type paint mixer. Over mixing must be avoided to minimize air entrainment.

After surface preparation, apply single primer coat of STARPROOF WF AC-600 by brush, roller or spray

APPLICATION

Prior to the application of Starproof WF AC-600 the priming coat must have cured tack-free. Protect adjacent areas from splashes, over painting, damage etc. with an adhesive tape or plastic.

Waterproofing & Protection:

Starproof WF AC-600 is applied in 2 – 6 coats as per the required system. Prior to the application of each coat the indicated waiting times must be followed.

- Build up the required membrane thickness by applying multiple coats of STARPROOF WF AC-600.
- Where substantial movements are anticipated in the substructure, reinforce the STARPROOF WF AC-600 by incorporating mesh reinforcement as part of a sandwich membrane system. Lay this mesh in the wet coat first, before application of subsequent coats.
- It may be applied by brush, roller, squeegee or spray equipment. The actual method of application is selected depending on construction and project conditions. To spray, select a nozzle size of at least 0.028 inch, first check the spray equipment to ensure suitability

WEATHER CONDITIONS

Actual drying time depends on weather conditions and may vary from one hour to full day. Do not start the work if rain is forecasted for subsequent 24 hours.

Tools:

High Pressure Jet Washer (minimum 150 bar):

If dust, vegetation, moss / algae or other contaminants are present on the existing roof, a power washer is required to clean the substrate prior to the application of Starproof WF AC-600. Existing chippings should be removed by hand or scabbling prior to power washing.

Squeegee:

Useful when removing excess water from the roof after overnight rain

Drill and paddle:

Starproof WF AC-600 should be mixed for one minute using a slow speed (300-500 rpm) drill and basket type paint mixer.

Solvent resistant short-piled roller:

Used in the application to ensure a consistent thickness of the seamless Starproof WF AC-600

Thick hair brush:

For application of Starproof WF AC-600 to all details and penetrations.

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CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically

LIMITATIONS

Do not apply Starproof WF AC-600 on substrates that have rising moisture.

Always apply during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising and expanding air. Starproof WF AC-600 may be flood tested when fully cured using 50 millimeter depth of water for a maximum period of 24 hours.

Ensure that each coat of Starproof WF AC-600 is totally dry and the surface is without pinholes before apply- ing further coats.

Do not apply Starproof WF AC-600 if inclement weather such as rain, fog or extreme humidity (80 % maximum) causing condensation is expected. Ensure that the applied Starproof WF AC-600 has sufficient curing time (see curing times below) before any such inclement weather is expected.

Do not allow temporary ponding or moisture (Dew, Condensation etc.) to remain between coats on any horizontal surfaces or until the final coating has totally cured. Brush or mop surface water away during this time.

It is recommended to carry out Adhesion and Compatibility tests with the Primer prior to application of following coats.

Starproof WF AC-600 should not be applied on roofs subject to long-term ponding water especially with subsequent periods of frost

In cold climatic zones for Roofing structures with a pitch of less than 3 % appropriate Starproof WF AC-600 drainage measures must have to be considered.

Starproof WF AC-600 is not recommended for pedestrian traffic. In case pedestrian traffic is unavoidable, Starproof WF AC-600 shall be covered with appropriate paving materials.

Starproof WF AC-600 is to be used mainly in exposed applications and is not for inverted buried systems.

Starproof WF AC-600 should not be subject to permanent water immersion.

Whilst Starproof WF AC-600 is resistant to most commonly encountered atmospheric pollutants, propriety cleaning solutions and environmental spoilage, the suitability of the product for use in applications with increased chemical resistance requirements should first be established in consultation with our Technical Department.

Overcoating Starproof WF AC-600 after 3 months exposure, requires adhesion tests.

Accessible Roofs:

A separation layer of polyethylene, kraft paper or similar should be placed on the STARPROOF WF-AC-600 membrane before topping with sand, cement screed or tiles of 4 to 5 cm thickness.

Basis of Product Data

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data

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APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min
Relative Air Humidity	80 % max.
Substrate Temperature	+5 °C min
Dew Point	Beware of condensation. Surface temperature during application must be at least +3 °C above dew point.
Substrate Moisture Content	< 6 % moisture content No rising moisture according to ASTM (Polyethylene-sheet). No water /moisture/condensation on the substrate

SUBSTRATE PRE-TREATMENT	Substrate	Primer	Consumption[kg/m ²]
	Cementitious	Starproof WFAC-600 diluted with water*	~0.3
	Brick and Stone	Starproof WFAC-600 diluted with water*	~0.3
	Bituminous felt	Starproof WFAC-600 diluted with water*	~0.2 - 0.3
	Metals (Ferrous or galvanized metals, lead, copper, aluminium, brass or stainless steel)	Starproof WFAC-600 diluted with water*	~0.2 - 0.3
	Paints	Starproof WFAC-600 diluted with water* Subject to adhesion & compatibility tests	~0.3
<p>* Dilute 3 parts of Starproof WF AC-600 (by volume) with 1 part of water and mix until a homogeneous mixture is achieved.</p> <p>These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.</p>			

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Waiting Time /Over Coating	Before Applying 1 st coat Starproof WF AC-600 on Primer coat , allow it to fully cure			
	Substrate Temperature	Relative Humidity	Minimum ,hours	Maximum, months
	25 °C	50 %	~5 h -8 h	3 months
	Before Applying 2 nd coat Starproof WF AC-600 on 1 st Coat , allow it to fully cure			
	Substrate Temperature	Relative Humidity	Minimum ,hours	Maximum, months
	25 °C	50 %	~5 h -8 h	3 months
<p>Note: Assuming that all dirt has been removed and intercoat contamination is avoided.</p> <p>Note: Times are approximate and will be affected by coating thickness and changing ambient conditions particularly temperature and relative humidity. Low temperature and high humidity retard curing, while high temperatures and low humidity accelerate curing progression.</p>				

STORAGE

- Store in dry place, keep away from direct sunlight and at temperature above 5°C and below 30°C
- Shelf Life, Minimum 12 Months in unopened container

PACKAGING

20KG PAILS

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