



ماكس روف MAX ROOF



PRODUCT DESCRIPTION

STARPROOF 44 is a special synthetic resin based protective coating for PU Foam. Because of its excellent flexibility and thixotropic nature, it is an ideal for use on vertical as well as horizontal surfaces.

APPLICATION

- Waterproofing for PU Spray Foam and roofs ranging.
- Recommended for both horizontal and inclined Structures.
- Can be applied 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 towed finish.

Weak concrete must be completely removed by mechanical means to achieve and open textured surface and all surface. Defects such as blow holes and voids must be fully exposed and proper repairing 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

TECHNICAL SPECIFICATION

Color	White
Solid Content, % (ASTM-D 1475-03)	57 – 62
Viscosity, Cps @25°C, S 6, rpm 20	50,000 to 60,000
Specific Gravity, kg/L	1.30 – 1.40
Tear Resistance, KN/m	24 – 28
Tensile Set recovery, %	80
Tack free time, hr @ 35°C	6 – 8
Hardness Shore A (ASTM-D 2240-05)	55 - 65
Water Vapor transmission, g/h-m ² (ASTM E 96-95)	0.25
Drying Time, minutes @ 25°C (ASTM D 1640-03)	10 -12
Elongation Break, % (ASTM -D 412-98)	>80
Tensile Strength N/mm ² (ASTM -D 412-98a)	9.35
Chemical Resistance, % Weight change -10% salt (Sodium chloride) - 5% Alkali (Caustic soda) - 5% Acid (Sulphuric)	3.0 2.0 3.0
Flammability & Toxicity	0.85 – 1.05

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.

PU Foam and 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

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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 44 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 44 by brush, roller or spray.

APPLICATION

Prior to the application of Starproof 44 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 44 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 44.
- Where substantial movements are anticipated in the substructure, reinforce the STARPROOF 44 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 44. Existing chippings should be removed by hand or scrubbing prior to power washing.

Squeegee:

Useful when removing excess water from the roof after overnight rain.

Drill and paddle:

Starproof 44 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 44.

Thick hair brush:

For application of Starproof 44 to all details and penetrations.

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 44 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 44 may be flood tested when fully cured using 50 millimeter depth of water for a

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maximum period of 24 hours. Ensure that each coat of Starproof 44 is totally dry and the surface is without pinholes before applying further coats. Do not apply Starproof 44 if inclement weather such as rain, fog or extreme humidity (80 % maximum) causing condensation is expected. Ensure that the applied Starproof 44 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 44 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 drainage measures must have to be considered.

Starproof 44 is not recommended for pedestrian traffic. In case pedestrian traffic is unavoidable, Starproof 44 shall be covered with appropriate paving materials.

Starproof 44 is to be used mainly in exposed applications and is not for inverted buried systems. Starproof 44 should not be subject to permanent water immersion. Whilst Starproof 44 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. Over coating Starproof 44 after 3 months exposure, requires adhesion tests.

Accessible Roofs:

A separation layer of polyethylene, kraft paper or similar should be placed on the STARPROOF 44

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.

COVERAGE

Theoretical coverage of STARPROOF 44 is approximately 1 m²/ liter, at 550 microns.

STORAGE

- Store away from sunlight and preferably below 30°C.
- Storage should be frost protected.

SHELF LIFE

STARPROOF 44 has 12 months shelf life if stored in required conditions.

ECOLOGY, HEALTH AND SAFETY

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

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INGESTION: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

WARRANTY:

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

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