

PRODUCT DESCRIPTION

High Performance, Polyurethane hybrid UV stable, Ecofriendly Flexible, Water-based modified water proofing membrane. Flexible single component liquid membrane. Based on an advanced polyurethane modified water-based polymer which is a proven solution for Weatherproofing & waterproofing applications for use in roof, basement, Podium area's etc.

BENEFITS

- Water based for easy clean up in water
- Flexible Class 3 membrane (400% + Elongation)
- Eco-Friendly low odor for easy use without irritation
- Fast drying can be recoated after 3-5 hours at normal room temperature
- UV stable nonyellowing, can be used externally
- WF SPU + External/Internal applications can be used both internally and externally (saves the user from buying two separate waterproofing systems)
- Compatible works well with many cement-based tiles adhesive
- Reinforcement does not require reinforcing for it to be effective
- Monolithic / seamless in-situ Membrane
- Excellent adhesion to concrete.
- Excellent elongation and very good low temperature flexibility.
- **WF SPU +** cures to a permanently flexible seamless membrane that has good adhesion to a wide range of substrates. Unlike more traditional bitumen-based products.
- **WF SPU +** does not readily embrittle with age, exposure to ultra violet radiation or weathering, and hence it does not crack or craze due to its flexible properties.

USES

- Suitable for use on many porous substrates including Gyprock, fiber cement, concrete, render brickwork, render and plasterboard.
- WF SPU + can be used to help water/damp proof basements, kitchens, bathrooms, balconies and decks, shower recesses, repair and restoration of leaking roofs as well as a damp proof membrane in sandwich panel construction.
- It is also suitable for deck areas & can be used in planter boxes and retaining walls as long as it is protected by drainage or corflute.

TECHNICAL DATASHEET

Appearance	Paste
Color	White
Cure Time at 25°	Full cure after 5-7 days
Solid%	70 ± 2
Specific Gravity	1.38 ± 0.05 (ASTM – D 1475-03)
Elongation Break	>400% (ASTM –D 2370-98)
Tensile Strength (MPa)	≥2 (ASTM – 412-98)
Tensile Set Recovery	96 % (ASTM D 412
Crack Bridging	Passes (ASTM C 836)
Temp Resistance (°C)	-30 °C to 100 °C
Bonding Strength (MPa)	1.61 (ASTM D 4541)
Recoating	3-5 hours at 20°C
Coverage	1.3 kg/m ² for 1mm DFT.
Dry Film Thickness	1000 µm achieved in 2-coats
Puncture Resistance (lb)	378 (ASTM-E-154)
Shore A Hardness	60 (ASTM D 2240 -05)
SRI	114

METHOD OF APPLICATION

Surface Preparation

General – Surface should be sound, clean and free of dust, oil, grease and curing compound. Loosely adhered particles such as rust scale, cement smears should be thoroughly cleaned with a wire brush or another such implement.

Concrete all new concrete surfaces must be fully cured (6-8 weeks) with a semi-rough surface appearance. Rendered surfaces must be allowed to cure for a minimum of 7 days prior to the commencement of waterproofing.

Gypsum/Plasterboard sheets must be installed to the manufacturer's guidelines with all joints being covered with a 50mm wide PP or PE tape whilst all screw/nail heads must be sealed with epoxy. When used as a wall substrate, sheet thickness should be a minimum 10mm thick.

STAR SPECIALTIES POLYMERS PVT. LTD.

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Fiber Cement sheets when used as a floor/wall underlay sheets should be a minimum 6mm thick whilst compressed fiber cement sheets should be a minimum 9mm thick for walls and 15mm thick for floor applications.

Metal Surfaces ensure surfaces are rust free with any hairline cracks being filled with a suitable gap filler whilst cracks larger than 2mm should be filled.

PRIMING

All surfaces to be primed with the **STARPROOF SUPERPRIME** or (50 % Water dilution with WF SPU +) whilst metal surfaces need to be primed with a suitable water-based anti-rust primer. The primer can be applied with a brush, roller or squeegee depending on the size of the area required to be primed. Allow 30–45 minutes at a temperature of 25 °C for the primer to dry before commencing to waterproof with WF SPU+.

METHOD OF APPLICATION

1. Remove all loose material by vigorous brushing, wire brush if necessary.
2. Treat any fungal growth with proprietary fungicide as recommended.
3. Allow surface to clean.
4. Fill cracks and voids with a suitable sealant, and polymer mortar or non-shrink grout.
5. Prime using **STARPROOF SUPERPRIME** with Coverage (80 –90 Sqft/ kg depending on substrate porosity) which within 1-3 hours dry.
6. Once the primer is completely dry then apply first coat which when dried follow it up with the second coat at 90° right angles to the first coat ensuring a complete coverage. Please note that air bubbles trapped under the surface must be removed in order to achieve the maximum waterproofing effect. Apply third coat if required.
7. **WF SPU +** requires to be applied at minimum thickness of 1.0 mm of DRY FILM THICKNESS (DFT) in 2 coats
8. Apply a minimum 1.3kg coverage @ 1 Sqm per two coats perpendicular to each other over a primed surface
9. In case of multi-coat application, the previous coat should be touch dry depending on the weather conditions).
10. Ensuring that the surface is smooth and without any pinholes allow 24 hours at 20°C before commencing to apply a suitable tile adhesive. Please note that a third coat may be required if any imperfections are present in the membrane.
11. WF SPU + can be applied by brush or roller without the need to mix, stir or heat before application. WF SPU + can be made into a sprayable grade.

12. Allow the coating for minimum 7 days natural curing before bringing it under the service.

THERMAL INSULATION

100% closed cellular structured, jointed extruded polystyrene panels are placed over the **STARPROOF WF SPU+** continuous waterproof membrane. The thickness to be determined by the degree of insulation required.

SUPPLEMENTARY NOTES

- The dry film thickness (DFT) of **WF SPU +** should not be less than 0.50mm or more than 0.90mm for each coat. Rough surfaces will reduce the coverage rate and consequently more material must be allowed to achieve the minimum DFT.
- Surfaces previously treated with silicone-based materials will inevitably be difficult to overcoat and this should not be attempted with **WF SPU +**.
- Substrates with poor adhesion to the underlying structure (e.g., blistered roofing felt) may also cause problems in providing sound over-coating.
- Preferential vapor drive in buildings must also be borne in mind when over-coating the roof and it may be judged expedient to employ ventilation to cope with transmission of high levels of moisture vapor.
- Coverage rates may vary with surface and porosity. The information given is based on average usage. A site trial is recommended.
- Minor damage to **WF SPU +** can be repaired by removing loose membrane; cleaning the surrounding area with water; overlapping by 150mm; priming the area with PRIMER and finishing with two coats of **WF SPU +**.
- **WF SPU +** is available in various colors on request.
- **WF SPU +** works best when it is applied when the temperature is between 5°C and 40°C.

HEALTH & 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.

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

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 till all traces have been removed. Seek medical attention if required.

STORAGE & SHELF LIFE

Shelf life is 12 months in a sealed container. Store away from sunlight and preferably below 30°C. Storage should be frost protected.

PACKING

STARPROOF WF SPU + is available in 1, 5, 10, 20 kg. pail, 50,200 kg.

CLEANING

Tools: Clean all the tools immediately with water. Use of thinner may be necessary for dried up material.

Hands: Use a hand cleaner or water followed by soap.

PRECAUTIONS & LIMITATIONS

- Recommended to be primed with **STARPROOF SUPERPRIME** only.
- Do not apply when ambient temperature is below 10°C or above 45°C.
- Do not apply during rains.
- Adhesion property may get effected over poor quality putty and very smooth surfaces.
- Make sure the surface has a pull-off strength more than 1.5 MPa.
- When applying on a concrete surface make sure the concrete is completely cured.

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 our responsibility is limited to the quality of supplies with no guarantee of the results in the field, as manufacturer has no control over site conditions or execution of work.

DISCLAIMER

The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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