

PRODUCT DESCRIPTION

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

BENEFITS

- Very economical and pollution-free waterproof coating.
- Due to its white color, it offers excellent UV Resistance & Solar reflectivity.
- Gives a cooling effect due to the reflective properties.

USES

- Waterproofing for roofs ranging from asphalt, asbestos, and cement to concrete, Metal Surfaces, and terrazzo tiles.
- Recommended for both horizontal and inclined structures.
- Waterproofing of roof slabs, terraces, balconies, sun shades, parapet walls, etc. Provides additional waterproofing and protection when used as a base or intermediate coat in brickbat Coba / IPS flooring.
- Waterproofing of new as well as old surfaces
- It is good adhesion for all types of Polymers and Bituminous Coating.

TECHNICAL DATASHEET

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| Appearance | Viscous Liquid |
| Solid Content (%) | 62 ± 2 (ASTM D 2369) |
| Color | White, Grey, Blue |
| Specific Gravity | 1.30 ± 0.05 (ASTM D1475-03) |
| Tack Free Time @ 35 ° C | 2 to 3 hrs. |
| Drying Time @ 25° C. | 11 – 12 hrs. (ASTM D 1640 - 03) |
| Hardness Shore A | 60±5 (ASTM D 2240-05) |
| Resistance to Temperature | Approx. -5 °C to +100 °C (ASTM D 2485-05) |
| Elongation Break | > 400 % (ASTM D 2370-98a) |
| Tensile Strength N/mm² | >2.0 (ASTM D 2370-98a) |

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| Tensile Set Recovery | 96 % (ASTM D 2370-98a) |
| Crack Bridging (ASTM C 1305) | Passes (No Cracking) |
| Water Permeability | almost zero |
| UV Resistance | 10,000 hrs. No deterioration or color fade. (ASTM D 822) |
| Flash Point | Non-flammable |
| Tear Resistance (KN/M) | 27 (ASTM D 624) |
| Pull-Off Adhesion Strength N/mm² | 1.6 (ASTM D 4541) |
| Water Vapor Transmission g/h-m² | 0.92 (ASTM D 1653) |
| Solar Reflective Index (SRI) | 114 (SRTL/SOP/17) |
| Puncture Resistance (ib) | 378 (ASTM F 1306) |
| Co-efficient of Heat Insulation K Factor Value (SRTL/SOP/22) | 90 °C = 0.24 75 °C = 0.22 -40 °C = 0.26 |
| Weathering (10000 Hrs) | Passes the Test (ASTM D 4798) |
| Coverage | 13-15 sq. ft/kg in 2 coat application |
| Dry Film Thickness | 450-500 µm achieved in 2 coats |

APPLICATION OF MEMBRANE

Standard procedures to be followed for cleaning, the substrate, and primer coat application. After complete drying of the primer coat, give two coats of **WF SP 600**. Curing for 48 hours is adequate at normal temperatures. However, at low-temperature conditions curing time to be extended accordingly and ensure complete curing before laying thermal insulation and mechanical protection.

METHOD OF APPLICATION

WATERPROOFING CONVENTIONAL ROOFS

- **Asphalt surfaces:** old asphalt surfaces and asphalt roofing felt after cleaning must be primed with STARPROOF SUPERPRIME. This would strengthen the weathered surfaces. Blisters in asphalt roofing felt must be cut open

STAR SPECIALTIES POLYMERS PVT. LTD.

Survey No 52/3 & 54/6-D, Daman Industrial Estate, Village - Kadaiya, Nani Daman, Daman – 396210

Ph: 91-9712925770, www.star-ind.com, Mail: -info@ssplchem.com

KSA

Tel. +996 12 677 7073

Email: - ksa@star-uae.com; web: - www.star-uae.com

UAE

Tel. +971 6 5611411

Email: - uae@star-uae.com web: - www.star-uae.com

crosswise, dried, and bonded with a suitable adhesive.

After complete drying of the primer and bonded areas, WF SP 600 is applied with a brush, roller, or spray gun. A brush with horsehair bristles will provide almost texture-free, smooth surfaces. Dilution up to 20% for 1st coat and 10% for 2nd coat is allowable. For spraying, **WF SP 600** may be diluted with a little water. Higher dilution would lead to sedimentation and blocking of the spray gun.

- **Terrazzo Tile Roofs:** Damaged or washed-out joints should be cleaned and repaired or re grouted. After thorough cleaning to remove all loose material, prime the entire surface with **WF SP 600** diluted 1:2 with sweet water. After the primer coat is completely dried, make two coats of WF SP 600 as previously described.
- **Flat roofs with zero pitch:** Flat roofs without pitch, so called zero pitch roofs, are roof surfaces where puddles may develop and which therefore pose special problems. Puddles after curing cannot be rectified which may necessitate redoing the entire waterproofing. Hence dry weather condition is a prerequisite to help satisfactory curing and puddle free coating. Broom with hard bristles (example of stiff plastic) should naturally not be used for cleaning since in unfavorable conditions they may cause damage to the coating.
- **Metal Roofs:** Iron or galvanized iron: remove loose paint with a wire brush. De rust corroded areas and prime with suitable metal primers.
- **Zinc or aluminum Roofs:** remove loose paint with a wire brush. Remove corrosion if present and prime with solvent primer. Thoroughly remove moss and mildew with a wire brush; subsequently, clean the surface with a broom. After thorough drying of the primer, application of **WF SP 600** is carried out as previously mentioned.
- **Concrete Roofs:** After cleaning the roof surfaces, prime with **SUPERPRIME**. After complete drying of the primer, proceed as described under asphalt roof surfaces to apply **WF SP 600**.

SUBSTRATES

- Nature of substrates: **WF SP 600** waterproof membranes can be applied not only to concrete but also to wood and metal surfaces. With the latter a special primer is necessary.
- Roof Pitches: The membrane can be applied for all roofs to

any extent of slope.

- Condition of substrate: Concrete and cementitious substrate are to be well compacted and at least 28 days old, with troweled finish. Wood panels or metal sheeting should be solidly fixed and cleaned. All surfaces must be clean, dry and free from dust or rust and oil residue.

PRECAUTIONS & LIMITATIONS

- Recommended to be primed with **STARPROOF SUPERPRIME** only.
- Do not apply when the ambient temperature is below 10°C or above 45°C.
- Do not apply during rains.
- Adhesion property may get affected 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.
- Asphalt roof surfaces to be coated with WF SP 600 must be at least one year old and load-bearing. The application at temperatures below 5°C will result particularly in the case of thick coats, incomplete film formation, and consequently reduced elasticity of the film as well as the possibility of formation of cracks in the coating.
- Low temperatures and high atmospheric humidity (such as fog) will slow down the curing rate, and vice versa.
- **WF SP 600** membranes are resistant to abrasion or light pedestrian traffic. However, they can be damaged by heavy traffic, high-heeled shoes, and furniture, and thus should be protected by tiles, slabs, etc. in such cases.

THERMAL INSULATION

100% closed cellular structured, jointed extruded polystyrene panels are placed over the **WF SP 600** continuous waterproof membrane. The thickness to be determined by the degree of insulation required.

CLEANING

Clean tools and equipment with water before the material hardens.

HEALTH & SAFETY

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

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KSA

Tel. +996 12 677 7073

Email: - ksa@star-uae.com; web: - www.star-uae.com

UAE

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Email: - uae@star-uae.com web: - www.star-uae.com

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, 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.

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

PACKING

STARPROOF WF SP 600 is available in 1, 5, 10, 20 kg. pail, 50,200 kg.

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 the manufacturer has no control over site conditions or execution of work.

DISCLAIMER

The product information & application details given by the company & its agents have 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 requirements 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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