

PRODUCT DESCRIPTION

STARPROOF HR 900 is a single component, High solar reflectance keeps roofs cooler in high hot weather conditions as a protective coating for thermal shocks. Tough and seamless membrane resists many harsh chemicals and bridges hairline cracks. UV protection & display excellent dirt pick-up resistance and retain their flexibility long after aging.

BENEFITS

- Reduce the energy required for interior cooling.
- Reduce thermal stresses on the roof, hence improving system lifetimes.
- Improve indoor thermal comfort;
- Reduce running and maintenance costs
- Increase the value of a building.
- High Heat insulation and reduces thermal conductance.
- Protects exposed concrete structures against carbonation and ingress of atmospheric gases and salts.
- Excellent UV resistance and Dirt pick-up and resistance to blistering.
- Non-toxic, washable and environment friendly.
- Low VOC

USES

- Sloped concrete roofs, metal profile roofs & asbestos roofs, top coats as Combo Roof, PU foams.
- Roofs, terraces, balconies, domes
- Sandwich panels, corrugated sheets
- Over coating on minerals surfaced waterproofing membranes.
- Concrete facades.

TECHNICAL DATASHEET

| | |
|---|------------------------------|
| Color | White/Grey |
| Solid Content | 68 ± 2 % (ASTM D 1644-03) |
| Tensile set recovery (%) | 92 (ASTM D 412) |
| Tensile Strength, (MPa) | >1.8 (ASTM D 412) |
| Elongation @break, [%] | >250 (ASTM D 412) |
| Specific Gravity | 1.42 ± 0.05 (ASTM D 1475-03) |
| Pull off adhesion Strength (MPa) | >1.5 (ASTM D 4541) |
| Crack bridging ability | Passes (ASTM C 836) |

| | |
|-------------------------------------|---|
| Puncture Resistance (Ib) | 372 (ASTM E 154) |
| Application temperature [°C] | 10°C -50°C |
| Tear resistance KN/M | 22 (ASTM D 412) |
| Shore A hardness | 63 (ASTM D 2240-05) |
| SRI | 116 (SRTL/SOP/17) |
| Service temperature [°C] | -5°C to 90°C |
| Coverage | Approx. 14-16 sq. ft/kg @ 500mic DFT for concrete surfaces in 2 coats. Approx. 17-19 sq. ft/kg @ 400mic DFT for metal surfaces in 2 coats. |

METHOD OF APPLICATION

Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the coating as follows;

SURFACE PREPARATION

Concrete Surface:

Clean the surfaces which shall receive the coating of all dust, dirt, moss, oil and grease, loose particles, cement laitance and all other deleterious materials which will affect the adhesion of the coating with the substrate. Cracks and potholes, cracks of 1.5mm and over must be routed or saw cut and sealed with approved elastomeric sealant or repair mortars.

Metal surface:

Clean the surface of all rust scales. This can be achieved by wire brushing or grit blasting. Provide suitable anti-corrosive treatment and proceed for primer application

Priming

STARPROOF SUPERPRIME must be applied as a primer coat on the concrete surface to seal the pores and stabilize the surface. The primer also functions as an adhesion promoter for the top coats. This primer coat can be applied by a brush, roller or airless spray and allowed to dry completely before the application of coating.

Application

Mix the contents of the pail prior to the application to remove any sediment. **STARPROOF HR 900** can be applied by soft bristled brush, roller or an airless spray. When applying by airless spray then dilute the coating with

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

approximately 5% water to reduce the viscosity of the coating. Apply the first coat of undiluted material at given coverage. It is important to ensure that each coat has to be cured totally before applying the next coat. The second coat should be applied at right angle to the first at the same coverage rate, to ensure a full unbroken coating to the substrate. Allow the coating to cure fully for 5-7 days to achieve its full properties.

CLEANING & DISPOSAL

Clean all the tools with water after use. Hardened materials can be removed mechanically only. Allow the waste to cure. Seal it into a suitable container and bury in landfill. Use licensed waste disposal contractor and consult the local authorities when disposing

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.

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.

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.

STORAGE & SHELF LIFE

The pails and drums must be stored in a covered area, away from direct sunlight, UV and other sources of heat.

Shelf life is 12 months in a sealed container. Excessive exposure to sunlight and UV will result in the deterioration of the quality of the product and reduce its shelf life.

PACKING

STARPROOF HR 900 is available in 20 Kg, 50kg, 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 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

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