

PRODUCT DESCRIPTION

STARFLOOR EPC HD is a two component, solvent-free, epoxy resin self-smoothing chemical resistant flooring system and coating for metal and concrete surfaces. It has excellent adhesion qualities, chemical resistant and glossy finish and easily cleaned.

BENEFITS

- Excellent wear under heavy traffic
- High flow characteristics combined with an attractive self-smoothing finish.
- Fast application - minimizes downtime.
- Chemically resistant - good resistance to a wide range of chemicals.
- Durable and good impact resistance.
- Hygienic - provides a dense, impervious, seamless floor surface which is easily cleaned.
- It can be applicable through Brush, Roller and spray
- Solvent free, low odor and safe application.
- It is Food Grade material – Specially designed for water tanks.

USES

STARFLOOR EPC HD is designed for use in wide range of industrial environments where a lasting solution to floor maintenance problems is required. It provides a dense, impervious, colored, and chemically resistant floor surface which is hygienic and easy to clean. Typical applications include:

- Heavy duty concrete floor coating in industrial and commercial plants such as warehouses, service stations, chemical plants, metal treatment plants, internal car parking decks.
- Machinery service areas.
- Rust preventing coating for steel and concrete tanks.
- Coating on steel exposed to abrasion

TECHNICAL DATA SHEET

| | |
|-------------------------------|---|
| Component | Two components base and hardener |
| Form | Pourable liquid |
| Color | Available in various colors |
| Mixed density | 1.40 +/- 0.05 gm/ml |
| Solid content | 100 % |
| Pot life | 20 – 30 minutes |
| Full cure | 7 days |
| Shore A Hardness | 80 +/- 3 @ 7 days |
| Compressive Strength | 75 N/mm ² @ 7 days |
| Tensile Strength | 12 N/mm ² @ 7 days |
| Abrasion Resistance | 20 mgs loss |
| Temperature Resistance | up to 85 °C |
| coverage | 20 sq. ft/kg with 400 microns DFT (2 coats) |

CHEMICAL RESISTANCE

| | |
|--------------------------|-------------|
| • Hydrochloric acid, 30% | : Excellent |
| • Nitric acid, 20% | : Good |
| • Acetic acid, 10% | : Good |
| • Sulfuric acid, 40% | : Excellent |
| • Sodium hydroxide, 50% | : Excellent |
| • Kerosene | : Excellent |
| • Ketones | : Poor |
| • Alcohol | : Good |
| • Petrol | : Excellent |

Note: Properties measured at 25° C. Data quoted typical for this product does not constitute a specification. To obtain performance characteristics stated in this data sheet, the mixing ratio must be maintained.

GLOBAL MIGRATION TEST (FOODGRADE TEST)

| | |
|----------------------------|---|
| Simulant (Temp/ time) | - Distilled Water 49°C/24 hrs. |
| Number of Extractives | - 0.15 mg/in ² |
| Limits as per USFDA 175.30 | - 1.8/in ² for single use 1.8/in ² for respited use. |

STAR SPECIALTIES POLYMERS PVT. LTD.

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INSTRUCTIONS FOR USE

Substrates should be dry and not suffer, or be likely to suffer, from rising damp. If necessary, suitable damp-proof membranes should be installed during construction to prevent this. Substrates should not have a relative humidity greater than 75% at the time of installation.

All surfaces to be repaired must be clean, sound and dry, free of mould release agents, bond breaking coatings, curing compounds or any other form of contamination that may affect the bond strength of the epoxy coating. Remove them by mechanical means i.e., wire brushing & washing with water jet. Establish area where epoxy flooring to be done by visual inspection and hammer sounding. Highlight all areas where concrete quality is weak. Remove poor quality concrete in the floor until sound concrete is apparent. Ensure the surfaces are left in a smooth condition. Any minor repairs shall be done with Ox mortar 70. All edges ideally should be cut at right angles. Feather edges are usually pointing of weakness.

Upon completion of shot blasting or grinding the floor should be vacuumed and cleaned.

Once the surface preparation is complete the concrete should be primed with **STARFLOOR STARPRIME 300**. The primer should be brushed into the surface using a stiff brush, broom or roller & allowed to dry (minimum 12 – 16 Hours) before the application of **STARFLOOR EPC HD**. In case of extremely porous substrate, two coats of primer are recommended. Allow the first coat to dry before applying the subsequent coat. The primer coat needs to be allowed to dry completely before laying **STARFLOOR EPC HD**.

STARFLOOR EPC HD flooring is supplied in two component pack including base and hardener, which are ready for immediate on-site mixing. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor. Mixing should be carried out using either a forced action mixer; or a heavy duty, slow-speed drill fitted with mixing paddle. All such equipment should be of a type and capacity approved by SSPL.

The components should be mixed accordingly as add the hardener (Part-B) to base (Part-A) and mix for 2 - 3 minutes, until homogenous. After applying the first coat it should be allowed to dry for a minimum of 24 hours before application of the next coat. Do not mix material in quantities which cannot be applied within the workable time of the product.

STORAGE & SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature

deterioration of the product or packaging. For specific storage advice consults SSPL Technical Services Department.

PACKING

STARFLOOR EPC HD available in 6 kg kit.

SAFETY PRECAUTIONS

It should not meet skin and eyes or be swallowed. Avoid prolonged inhalation of solvent vapors. Some people are sensitive to epoxy resins, hardeners, and solvents. Gloves, goggles and barrier creams should therefore be used while handling the product. Adequate ventilation should be ensured and if working is enclosed areas, suitable breathing apparatus must be used. If the resin meets skin, it must be removed before it hardens with a resin removing cream, followed by washing with soap and water. Should accidental eye contamination occur with any of the above products, it should be washed well with plenty of water and medical advice should be sought. If swallowed medical attention should be taken immediately. Vomiting should not be induced.

DISPOSAL

Do not re-use containers. To be disposed of as per Local rules & regulations.

CLEAN UP

Clean tools and equipment with STAR solvent.

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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