

Product Data Sheet



STARPROOF PUD-337

Single Component, Elastomeric,
Polyurethane - Hybrid Waterproof Coating

Uses:

- Protecting Spray-PU Foam Insulation from UV rays
- Waterproofing of concrete, asbestos, cement, and gypsum board surfaces
- Exposed Roofs with many details and complex geometry
- Sloped Concrete or Corrugated Steel Sheet Roof Decks
- Vapor / Protection Barrier coating for Floor and Walls

Product Description

STARPROOF PUD-337 is a single component, cold liquid applied, elastomeric waterborne hybrid polyurethane-acrylic roof waterproof coating. Offers protection and good adhesion to a wide range of substrate. The Product is White and thus offers Solar Reflection = Better Thermal Roof Insulation. **STARPROOF PUD-337** has high resistance to yellowing and offers exceptional elasticity which allows substrate contraction and expansion cycles.

Product Data Sheet

Advantages

- Flexible elastomeric product.
- Easy to use single component.
- Weather-resistant.
- It can be applied over sloped roofs.
- Easy to maintain
- Excellent adhesion to all common primed substrates
- Excellent water and UV resistance. The white color reflects much of the solar energy reducing the internal temperature of the building
- Excellent to refurbish existing roofs without full replacement.

Standard Compliance

- ASTM D4541
- ASTM D412
- ASTM D1305

Technical Properties

STARPROOF PUD 337	Typical Values @ Laboratory Conditions
Available colors	White (Other colors based on request).
Drying Time (RH 50%)	60 Minutes
Density	1.15 Kg/ltr (approx..)
Chloride content	NIL
Resistance to positive Water Pressure DIN 1048	> 1.5 Bar
Solid Content	> 48 %
Tensile Strength	> 1.3 mPa
Elongation @ break	> 600 %
Weathering resistance	1000 hours – slight discoloration, no deterioration in function
Water Vapor Transmission	< 15 gr/m ² /24h
Full cure	7 days
Bond Strength	> 1.3 mPa
Application Temperature	Minimum +5° C
Harmful to EEC 88/379	No
Volatile Organic Content (VOC)	<5 gm/ltr
SRI	> 80 %

Product Data Sheet

Application

Surface Preparation

The surface should be clean, dry, sound and free from oil, grease and wax contamination. Cement laitance, loose particles, mould release agent or curing membranes must be removed.

Fill surface irregularities with a suitable product. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 14 days.

Priming

Priming is normally not required on good quality concrete substrates.

However, high absorbent surfaces such as porous concrete, sand/cement and cement boards will require sealing to prevent absorption of **STARPROOF PUD-337**. This should be done by diluting **STARBOND PUD-337** by 1:3 ratio as a primer.

Priming will significantly improve the adhesion between **STARPROOF PUD-337** and all kinds of porous substrates - It will also stabilize and fortify weak and porous substrates before the application of **STARPROOF PUD-337**

Application

Application brush / roller / squeegee / spray

STARPROOF PUD-337 can be applied by roller, brush, or by airless spray at a Dry Film Thickness of 300 – 350 microns per coat. If necessary, contact STAR Technology for further advice on spray equipment. **STARPROOF PUD-337** needs to be applied in two coats.

Allow the first coat to dry (normally 1-5 hours depending on the climatic conditions), then proceed with the application of the second coat. The second coat of **STARPROOF PUD-337** should be applied at 90° to the first, ensuring that a final continuous coating with a minimum total applied Dry Film Thickness of 600 – 700 microns.

For pedestrian traffic it is recommended to use a polyester fleece reinforcement, embedded firmly in the second coat while wet + Third coat should be applied.

Spray equipment

Examples of suitable airless spray equipment models are the Keiser KP330 and KP230 or the Graco Mark V.

Cleaning

Remove **STARPROOF PUD-337** product from tools, equipment, and mixers with STAR Solvent before the initial set. Cured material can only be removed mechanically.

Packing & Coverage

Product	Pack Size	Theoretical Coverage
STARPROOF PUD-337	20 Kg pail	0.85 Kg/m ² /Coat @ 300 – 350 micron DFT

Stated consumption data are for general guidance. Actual consumption depends on the nature of substrate, method of application, and wastage.

Shelf Life & Storage

The original sealed container of **STARPROOF PUD-337** has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place below 35°C.

Limitations

- Do not apply **STARPROOF PUD-337** if the ambient or substrate temperature is >50°C.
- Do not apply **STARPROOF PUD-337** if the concrete moisture content is >6% or if rising moisture (negative pressure) is evident by polyethylene sheet test.
- STARPROOF PUD-337** should not be subject to permanent immersion or permanent ponding water
- If any doubts arise concerning application or substrate conditions, consult the STAR office.

Health & Safety

STARPROOF PUD-337 contains polymers that can be harmful to the skin. During use, avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection, and respiratory protective equipment. The use of barrier cream provides additional skin protection. In case of skin contact, rinse with plenty of clean water, cleanse with soap and water. In case of contact with the eye, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – do not induce vomiting.

STARPROOF PUD-337 is non-flammable.

For complete Health and Safety instruction and information, please refer to STAR MSDS.

Product Data Sheet

Additional Information:

STAR manufactures a wide range of construction chemicals and specialty products for various applications divided into the following product sections:

1. **Waterproofing Products**
2. **Sealants, Grouts, and Joint Fillers**
3. **Adhesives**
4. **HVAC – Adhesives, Coatings & Sealants**
5. **Flooring Products**
6. **Industrial Adhesives (i.e. Paper Industry)**
7. **Accessories**

STAR Technology provides various technical information such as detailed method statements, specification clauses, application manuals and technical support both in contractors and consultant's offices as well as construction sites.

For further information on these products and systems kindly visit our website or contact your local STAR representative