

## FLEXIROOF PU

### SINGLE COMPONENT, LIQUID APPLIED, POLYURETHANE ELASTOMERIC MEMBRANE

#### DESCRIPTION

**FLEXIROOF PU** is single component moisture cured, liquid applied polyurethane elastomeric membrane for the waterproofing of various kinds of surfaces. The product cures to a rough rubber like finish with excellent flexibility.

#### ADVANTAGES

- Easy to apply by brush, roller or spray.
- Provides seamless waterproofing unlike sheet type membranes.
- Adheres strongly to the surface of concrete and remains flexible under extreme temperature conditions.
- Due to its simple application procedure, there is a significant reduction in labour cost and application time.

#### USES

- **FLEXIROOF PU** is ideally suited for the waterproofing of two course concrete slab construction for parking garages, decks, shopping malls, plaza areas, bridge decks etc. It is suitable for waterproofing under terrazzo or tile floors, under shower pans, kitchen and bathroom floors, water storage tanks and in the inside of elevated swimming pools.

#### INSTRUCTIONS FOR USE

##### 1. Surface Preparation:

- Free the surface to be coated of all foreign matter, dirt, dust, paint, oil, grease etc., using a stiff nylon or steel bristled brush.
- Clean it further using compressed air.
- Fill all voids, cracks of more than 3 mm depth and level all irregular surfaces with a latex modified repair mortar screed.
- Allow it to cure for at least 48 hours. Cure freshly placed concrete for at least 7 days before applying **FLEXIROOF PU**.

##### 2. Priming:

- Prime the surface, if the substrate is highly porous. For adhesion to dry, nonporous concrete, primer is not necessary. However, if pinhole and blister problems occur as a result of air and/or moisture vapors emitted from the concrete and environmental conditions, it is recommended that the surface be primed.

##### 3. Mixing:

- Open the container and mix **FLEXIROOF PU** thoroughly using a slow speed drill type stirrer to get uniform consistency.

##### 4. Application:

- For horizontal and vertical surfaces, apply a thin coat of **FLEXIROOF PU Primer** (0.1- 0.2 mm) by brush. Airless spraying equipment may also be used.
- Ensure that no excess liquid collects on the edges of the floor.
- If this occurs, spread the liquid evenly by brush. Air Cure for 5-6 hours before applying the 1<sup>st</sup> coat of **FLEXIROOF PU**.

##### 5. Method:

- First and Second coat - After the primer coat has been cured, start the application
- **FLEXIROOF PU** can be directly applied to the concrete surface provided that the concrete is in good, sound condition. We recommend that for this type of application, a minimum of 1.5 Kg per M<sup>2</sup> be applied, and that the material be applied in two coats.
- The first coat of **FLEXIROOF PU** liquid should be applied using a brush or squeegee to all surfaces at a rate of 1 Kg per M<sup>2</sup>. The **FLEXIROOF PU** material should then be allowed to cure until 'tack free'. We would recommend that ideally this be left overnight.

- The second coat of **FLEXIROOF PU** liquid should be applied using a brush or squeegee to all surfaces at a rate of 0.5 Kg per M<sup>2</sup>. We recommend that this second coat be applied at right angles to first.
- Sand may be sprinkled on the 2<sup>nd</sup> coat to make it rough enough to provide key for the protective screed.
- The **FLEXIROOF PU** membrane should be allowed to cure for 7 days.
- Ideally, ponding could be carried out to ensure that the membrane is sound – if site conditions and schedule allow, the area should be tested over a minimum period of 4 day.
- Once the testing process is complete, we recommend that the membrane be protected with a cement- sand screed, prior to laying any tiles / other surfacing.

#### PRECAUTIONS

- Do not apply **FLEXIROOF PU** on wet or unprepared surfaces. Smoking by applicators or others in the vicinity is strictly prohibited during application. In confined areas, breathing equipment may be made available for applicators or access to fresh air may be allowed at intervals.

#### CONFORMANCE

- Conforms to **ASTM C836**.

#### PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Black coloured viscous liquid
Tack free time	: 24 - 48 hours at 25 <sup>o</sup> C.
Tensile strength	: 300 psi (ASTM D 412)
Elongation	: 900% (ASTM D 412)
Shore A Hardness	: 40 ± 5 (ASTM D 2240)

#### PACKING

- 22.5 Kg pails.

#### STORAGE & SHELF LIFE

- 6 months when stored in a cool & dry place; away from direct sunlight, in original sealed packing.

#### HAZARDS IDENTIFICATION

- Health hazards: No particular hazard known. If the product spills onto the applicator's skin and dries up, some irritation may occur. Wear gloves and goggles while applying.

#### FIRST AID MEASURES

- Skin contact: Immediately wash thoroughly with soap and water.
- Inhalation: Remove to open air. Seek medical attention.
- Contact with eyes: Immediately wash under running water with eyelids open for at least 15 minutes. Seek medical attention.
- Ingestion: Rinse mouth thoroughly and drink plenty of water. Seek medical attention.

#### ACCIDENTAL RELEASE MEASURES

- Environment Care: Clean small spillages immediately with water. Contain large spillages with suitable absorbent materials. Dispose the waste water/absorbent material in accordance with local regulations.

#### QUALITY ASSURANCE

All products are manufactured under a Quality Management System for Design, Manufacturing and Selling of Construction Chemicals as per the standards of ISO 9001:2008.

#### DISCLAIMER

The product information and application detail given by Sunanda Speciality Coatings Pvt. Ltd. (SSCPL) are based on current experience and knowledge, which meant to provide general guideline during usage. The user is responsible for checking the suitability of products for their intended use. SSCPL reserves the right to change the specification of its products. SSCPL endeavor to ensure that advice, specifications, recommendations and information given is accurate and correct, we cannot have control over how our products are applied and will not accept liability, directly or indirectly, arising from application of our materials