

PRODUCT DESCRIPTION: Fibseal Pur 12 k is a single component liquid made up of polyurethane, solvent-based, moisture-cured forms a continuous, seamless, solid and elastic, watertight, and waterproof membrane. Its properties make it an excellent choice to be applied on a multitude of substrates of new buildings and especially in refurbishments. It is applied manually, using a roller or brush, squeegee, and exceptionally, using specific spray equipment.

AREAS OF APPLICATION

Polyurethane liquid membrane system, for waterproofing or coating:

- **ROOFING:** Flat, low, or steep-slope roof, balconies, and overhangs. (ETA 10/0121 "Liquid Applied Roof Waterproofing Kit, based on polyurethane" and BBA 16/5340).
- **FLOORING:** Walkable floors with water proofing and hard-wearing requirements, including an approved non-slip finish (ENV-12633:2003)
- Structural concrete slabs, and concrete walls and foundations Metal and asbestos roofs
- Swimming pools, artificial lakes, and ponds. Near seawater
- Green roof and walls (ETA 10/0121 y BBA 16/5340)
- IRMA roofing system
- Flat or sloped asbestos roofs (used with spray polyurethane foam system)
- As a protection for SPF (,spray polyurethane foam system)

ADVANTAGE

- Simple application.
- When applied forms give seamless membrane without joints.
- Resistant to water.
- Resistant to frost.
- Green roofs application.
- Versatility to adopts any surface.
- Highly elastic & wear resistance.
- Can be applied in single layer 1.5 mm.

APPLICATION METHODOLOGY

Surface preparation

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. Substrate compressive strength should be at least 25MPa, bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed.

Any loose surface pieces and grinding dust need to be thoroughly removed.

WARNING: - Do not wash surface with water.

REPAIR OF CRACK & JOINTS

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

- Clean concrete cracks and hairline cracks, of dust, residue or other contamination. Prime locally with the EVERSIL PRIMER and allow 2-3 hours to dry. Then apply a layer of FIBSEAL PUR 12 K, 200mm wide centered over all cracks and while wet, cover with a correct cut stripe of the FIBFLEX GEOMAT/FIBREX Fabric. Press it to soak. Then Saturate the FIBREX Fabric with enough FIBSEAL PUR 12 K, until it is fully covered. Allow 12 hours to cure.
- Clean concrete expansion joints and control joints of dust, residue, or other contamination. Widen and deepen joints (cut open) if necessary. The prepared movement joint should have a depth of 10-15 mm. The width:depth ratio of the movement joint should be at a rate of approx. 2:1. Apply some FIBSEAL PU 21/22 OR FIBSEAL JSP 700/JSE 700 Joint- Sealant on the bottom of the joint only. Then with a brush, apply a stripe layer of FIBSEAL PUR 12 K, 200mm wide centered over and inside the joint. Place the FIBREX Fabric over the wet coating and with a suitable tool, press it deep inside the joint, until it is soaked and the joint is fully covered from the inside. Then fully saturate the fabric with enough FIBSEAL PUR 12 K. Then place a polyethylene cord of the correct dimensions inside the joint and press it deep inside onto the saturated fabric. Fill the remaining free space of the joint with sealant. Do not cover. Allow 12-18 hours to cure.

PRIMING

Prime absorbent surfaces like concrete, cement screed or wood with FIBSEAL PUR 12 K as PRIMER. Prime surfaces like bitumen, asphalt felts, non-absorbent surfaces like metal, ceramic tiles and old coatings. Allow the primer to cure.

MIXING

FIBSEAL PUR 12 K requires no pre-blending and should be used directly from the container but stir well before use.

FIBSEAL PUR 12 K

Polyurethane - Liquid Applied Waterproof Membrane

Product # 114.34
Version no: 16.11.23

Tech Data

APPLYING AND LAYING

Pour the mixed Fibseal Pur 12 k onto the primed surface and lay it out by roller or brush, until all surface is covered. You can use airless spray allowing a considerable saving of manpower. After 24 hours (not later than 48 hours) apply another layer of the Fibseal Pur 12 k. For demanding applications, apply a third layer of the Fibseal Pur 12 k.

CLEAN UP

Uncured materials on the surface may be cleaned with Fibrex Paint Remover. All tools and equipment's need to be cleaned with Fibrex Paint Remover before its sets or harden.

TECHNICAL SPECIFICATIONS

PROPERTIES	VALUES
Physical State	Liquid
Density ISO 1675	1.45±5 g/cm ³
Viscosity ISO 2555	2.500~6.000 cps
Dry extract at 105°C % weight EN1768	85 ±5 g/cm ³
Flash Point ASTM D93	42°C
Ashes at 450°C % weight	42~47%
Solid content ISO 1768	80-90%
VOC	210 ~270 g/l
Working-life of the system (according to the EOTA and BBA)	25 years W3: 25 years and 1.2 mm thickness
Roof slope	S1~S4 (zero slopes)
Fire reaction	Euro class E
External fire performance EN 13501-5	Broof (t1)+ (t4)
Resistance to wind loads	ABLE>50KPa
Anti-roots certification EN13948	YES
Support/environment temperatures range	5°C~35°C
Service temperatures range	-20°C~80°C
Hardness Shore A/D DIN 53505	>85 / >35
Tear Strength, (longitudinal) trouser, angle, and crescent test pieces ISO 34-1:2011	±24 KN/m

Tensile strength ISO 527-3	2~3 MPa
Elongation at break ISO 527-3	400~600%
Initial dry time	5-6 hours
Recoat time	24~48 hours
Water vapor resistance EN 1931	μ=2.500
Water-vapor permeability EN 1931	14 g/sqm/day
Concrete adherence	>2 MPa
Coverage	2.4kg/m ² /1.5mm

Results performed in the laboratory at 23°C and 50% RH, under controllable conditions. These values may vary depending on the application, coloration, climatology or substrate conditions.

PACKAGING

Fibseal Pur 12 k is supplied in 25 kg pail.

STORAGE

Fibseal Pur 12 k pails should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5-35°C. Products should remain in their original, unopened containers/buckets/pails, bearing the manufacturer's name, product designation, batch number and application precaution labels.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to pu-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

DISCLAIMER:

Fibrex Construction Chemicals pvt.ltd. products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

FIBREX OTHER PRODUCTS – WE DO

