

PRODUCT DESCRIPTION: Fibseal Pur 14 k is a premium, liquid applied, Polyurethane highly permanent elastic, polyurethane membrane used for long-lasting waterproofing. Fibseal Pur 14 k is based on elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal, natural element resistance properties.

AREAS OF APPLICATION

- ROOFING: Sloped/flat walkable roofs, IRMA, balconies, and overhangs.
- Green roofs
- BRIDGE DECK: under asphalt on concrete elements of civil engineering
- Swimming pools, lakes ponds Near seawater
- Flat or sloped asbestos roofs (on spray polyurethane foam system)
- As a protection for SPF (spray polyurethane foam system)

ADVANTAGE

- Simple application (roller or airless spray).
- When applied forms give seamless membrane without joints.
- Resistant to water.
- Resistant to frost.
- Resistant to root penetration, so it can be used in green roofs.
- Provides water vapor permeability, so the surface can breathe.
- Provides excellent thermal resistance, it never turns soft.
- Waterproofs old bitumen-, asphalt felts by covering them, without the need to remove them prior to application.
- Provides excellent adhesion to almost any type of surface.
- The waterproofed surface can be used for domestic and public pedestrian traffic
- Resistant to detergents, oils, seawater and domestic chemicals.
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.

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, cohesive 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 smoothened. 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 with the Eversil PRIMER and allow 2-3 hours to dry. Then apply a layer of Fibseal Pur 14 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 14 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 14 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 14k. 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 14k as PRIMER. Prime surfaces like bitumen, asphalt felts, non-absorbent surfaces like metal, ceramic tiles and old coatings. Allow the primer to cure.

APPLYING AND LAYING

Pour the mixed Fibseal Pur 14k material 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 12-18 hours (not later than 48 hours) apply another layer of the Fibseal Pur 14k. For demanding applications, apply a third layer of the Fibseal Pur 14k.

FIBSEAL PUR 14 k

Polyurethane - Liquid Applied Waterproof Membrane

Product # 114.35
Version no: 09.04.2023

Technical Data

COVERAGE

The recommended minimum thickness is up to 1,5 mm, so the yield will be up to 2,4 kg/sqm (DFT) applied on ONE (maximum thickness per coat 0,7 mm./ 1,2 kg/sqm) or various coats , depending on the application method and application conditions.

LIMITATION

The system requires solar radiation protection (UV rays) to do not lose its physical and mechanical properties, given that it is an aromatic membrane.

TECHNICAL SPECIFICATIONS

Dry extract at 105 °C % weight EN1768	85± 5 g/cm ³
Ashes at 450 °C % weight	42~47%
Initial dry time	±1,5 hours
Recoat time	1,5~24 hours
Application temperature range (substrate and environment)	3 °C~35 °C (37°F to 95°F)
Use temperature range (environment)	-20 °C~80 °C (-4°F to 176°F)
Solid content ISO 1768	80 ~ 90%
VOC content (volatile organic compounds)	210 ~270 g/l
Tensile strength ISO 527-3	4~6 MPa
Elongation at break ISO 527-3	400~600%
Hardness Shore A/D DIN 53.505	>85 / >35
Tear Strength, (longitudinal)trouser, angle, and crescent test pieces ISO 34-1:2011	±24 KN/m
Adherence to concrete/Steel/Polyurethane	1,9MPa / 1,6MPa / 0,2MPa
Anti roots certification EN 13948	PASS
External fire performance EN 13501	Broof classification (t1)+ (t4)
Fire reaction EN 13501	Euroclass E
Working-life (according to the EOTA and BBA)	W3 25 years (1,2 mm minimum thickness)
Climatic zone	S (hard weather)
Water vapor resistance EN 1931	μ=2.455

Water-vapor permeability EN 1931	14 g/sqm/day
Roof slope	S1~S4, zero slope, ponding water admitted
Temperatures / User loads	P4:TH2// P3:TH4, concrete P1:TH2, PU (Spray polyurethane foam)
Maximum environment humidity	80%
Initial tensile strength ASTM D412	593 psi
Final tensile strength G-154 envejecimiento acelerado 500 h	582 psi
Initial tensile strength at 90 days/ 70°C(158°F)	695 psi
Tensile tensile strength initial modulus at 100% ASTM D638	567 psi
Tensile tensile strength initial modulus at 200% ASTM D638	262 psi
Tensile tensile strength initial modulus at 300% ASTM D638	180 psi
Initial elongation at break ASTM D412	507 %
Final elongation at breack G-154 accelerating weathering 500 h	486 %
Final elongation at breack 90 days/70°C(158°F)	391 %
Hardeness Shore A/D ASTM D2240:2015	86/33
Water absorption (% mass) ASTM D-570	2,7 %
Permeance ASTM E96	1,7 perms
Puncture resistance ASTM D4833	37 lbf
Abrasion resistance (H18 wheel, wear index) ASTM D4060	2.477 mg
Abrasion resistance (H22 wheel, wear index) ASTM D4060	1.719 mg
Crack-Bridging ASTM C1305	No cracks after 10 cycles at -26°C(-15°F)
Pull off strength on steel / concrete ASTM D4251	514 psi / 502 psi
Accelerated Weathering 1000 hrs	No Cracking
Fungi resistance	resistance

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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.

PACKAGING

As per project standers.

STORAGE

Fibseal Pur 14k 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 manufacturers name, product designation, batch number and application precaution labels.

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:

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FIBREX OTHER PRODUCTS – WE DO

