

PRODUCT DESCRIPTION: Fibseal Pu 21 is an elastic, single component, gun-grade, moisture curing polyurethane sealant specifically developed to be used in building facade expansion joints where high elasticity is required. The product is suitable for sealing joints in pre-cast elements, external walling, curtain walling and cladding, panel walls, window and door perimeter sealing etc.

AREAS OF APPLICATION

- Sealing of expansion, contraction and construction joints in the building structures such as below grade and above grade structures, external walls and claddings etc.
- Sealing water retaining structures and joints in traffic areas e.g. bridges, roads and car parking areas.
- high strength elastic bonding in construction, Automotive, Industrial & Marine Applications
- bonding/Sealing of metal (stainless steel, Aluminum, Steel, Copper etc.)
- bonding / sealing of Rubber (Natural Rubber, Synthetic Rubber, Silicone Rubber, EPDM etc.)
- bonding/Sealing of Natural Materials (Wood, Plywood, Leather, Clothes, Paperboard etc.)
- bonding/Sealing of Inorganic (Concrete, Mortar, Natural Stone, Tile, Glass, Porcelain etc.)
- bonding/Sealing of Plastic (Nylon, PVC, ABS, Polycarbonate etc.)

ADVANTAGE

- Non Staining including Hydrophobic staining
- Good primer less adhesion on many common construction substrates
- Damp surface tolerant
- Low dirt pick up
- Excellent adhesion to a wide variety of substrates
- High movement accommodation
- High UV & aggressive atmosphere resistance
- Comprehensive color range
- Environmental friendly
- Excellent low temperature gun ability
- Improved gun & tooling characteristics
- Ideal for expansion joints in buildings

APPLICATION

SURFACE PREPARATION

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Fibseal Pu 21 adheres without primers and/or activators. However, for optimum adhesion and critical, high performance applications, such as on multi-story buildings, highly stressed joints, extreme weather exposure or water immersion, the following priming and/or pretreatment procedures shall be followed

PRIMING

Fibseal Pu 21 has excellent adhesion properties even without the use of primer on most common building materials. However, natural stone, paints, coatings and other treatments of surfaces may present a difficult surface to which to adhere. Use fibrex Primer on this type of surface.

APPLYING AND LAYING

Cut tip of cartridge/ sausage with a sharp knife. Cut nozzle at 45°angle to desire bead-width & apply to substrate with cartridge / sausage gun. Firmly extrude the sealant into slot ensuring complete contact with joint faces. The sealant should be tooled shortly after application before skin forms to ensure good contact with joint substrates. Use approved backing material for joints over 10mm deep.

CLEAN UP

- Clean all tools immediately after use with Fibrex Paint Remover. Do not allow material to harden.

TECHNICAL SPECIFICATIONS

Color	Grey, Black, White Other color on request
Appearance	Non-Sag Smooth Thixotropic paste
Cure System	Moisture Curing
Skin Over Time	25 - 40 min
Tack free time	15 - 30 min
Density	1.6±0.1 g/ml
Shore A Hardness	45±5
Tensile Strength	Approx.1 MPA
Service Temperature	-30°C to 100°C
Application temperature	+5°C to 40°C
Elongation at Break	Approx. 450 ± 50%
Movement Accommodation Factor (MFA)	25%

It will not readily ignite when expose to flame, hence it does not constitute a fire hazard (ASTM E84)

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FIBSEAL PU 21

High Performance Polyurethane Sealant

Product # 114.87
Version no: 16.11.23

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COVERAGE

Joint size (2:1mm)	Estimate Length (m)
6 x 3 (mm)	33.33 (m)
10 x5 (mm)	12 (m)
20 x10 (mm)	3 (m)

The coverage is approximate linear metre coverage per pack size (600ml)
Formula: $600 / (W \times D)$ where W = Width (mm) D = Depth (mm) L =Length(metre)

STANDARDS

Fibseal Pu 21 complies with the Requirement

- ASTM C 920
- ISO 9001& ISO 14001
- ISO 9001: 2015
- ISO 14001: 2015
- IFTF 16949 : 2016

PACKAGING

Fibseal Pu 21 is supplied in 10 Nos sausage box, each sausage size 600 ml packed in Al foil.

STORAGE

Store the material at temperatures between + 5° C and + 25° C in originally sealed packages, the material can be stored for 12 months. But before opening the drums, be assured that the temperature of the materials has the ambient temperature to avoid condensation. Open containers of material should be used quickly to avoid moisture contamination.

LIMITATIONS

Fibseal Pu 21 should not be used for:

- areas subject to continuous chlorinated water
- immersion, such as swimming pools, spa etc.
- Constant immersed in salt water.
- PE, PP, Teflon, Neoprene & bituminous surfaces.
- Painted with alkyd resin paint because it will inhibit the curing of the paint
- Used in trafficable joints greater than 10mm width
- Fibseal pu 21 may be overpainted with water based paints, however due to the large number of coatings available, it is advisable to carry out a compatibility test before application. For alkyd paints a suitable water based undercoat must be used.

PRECAUTIONS

During 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 busing, 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.

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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 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 Construction Chemicals 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.

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