

FIBSEAL PU FOAM (45)

Spray Applied Polyurethane Foam

Product # 114.54
Version no: 16.11.23

data
Tech

PRODUCT DESCRIPTION: Fibseal PU Foam (45) is a pre-blended rigid polyurethane spray polyol for the insulation of roofs, walls, floors, vessels and tanks. The foam provides better strength and has a good surface finish with excellent cell structure and good inter-laminar adhesion. The system uses our in-house CFC free. It is ideally processed through high-pressure impingement spraying. The system is highly reactive.

AREAS OF APPLICATION

- Flat and pitched roofs
- Insulation for roofs
- Can be used as part of a roof system
- Commercial buildings
- Agricultural buildings

ADVANTAGE

- Excellent yield
- Excellent processing
- Excellent adhesion
- CE approved system
- Low odor spray-foam material

APPLICATION

SURFACE PREPARATION

Substrate surface must be firm, offer good traction, free from loose particles, dust, dirt and additionally free of oil, grease and other impurities which can adversely affect uniform adhesion. If considered necessary, the surface should be sand blasted, flame scaled, milled or grinded well.

APPLYING AND LAYING

The material should be applied to the prepared surface using spray. The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate.

CLEAN UP

Clean all tools immediately after use with Fibrex paint remover. Do not allow material to harden. Any hardened material will need to be removed mechanically.

Remark

Due to the existing fire risk of polyurethane in some applications, for interior insulation, the foam surface must always be covered with a fire protection. Exterior applications must always be provided with a coating to protect it against all different weather elements

TECHNICAL SPECIFICATIONS

Properties

Properties	Unit	Specifications
Physical State	None	Liquid
Color	None	Clear Yellow
Specific Gravity	None	1.05-1.10 (25°C)
Viscosity	cps	450-750 (25°C)
Ideal Operated Temperature	Celsius	25°C
Mixing Ratio (Polyol:MDI)	By Volume	100:100
Cream Time	seconds	2-5
Gel Time	seconds	5-8
End of Rise Time	seconds	9-12

The above reaction characteristics are achieved in the laboratory tests at 25°C via hand mixing with a mechanical stirrer at 3000 rpm. Using a high-pressure dispensing machine with primary and secondary heating line would speed up the system. The overall applied density may also vary depending upon processing conditions, including ambient and substrate temperatures, mixing speed and time, etc

Foam Properties

Properties	Unit	Specifications
Overall Density	kg/m ³	45±3
Closed Cell Content	%	>90
Thermal Conductivity	W/m.K	0.023
Dimensional Stability	%	1 Max
Reaction to Fire	Class	E Class (EN 13501-01) B2 Class (DIN 4102-1) G3 Class (GOST 30244)
Coverage (without wastage)	-	2.25kg/m ² /50mm thickness
Coverage Calculation		Volume (m ³) X density (kg/m ³) + wastage*

* wastage should be extra if any.

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PACKAGING

Fibseal Pu Foam (45)
A Component (PU Base) - 200 kg Metal Drum
B Component (PU Hardener) - 250 kg Metal Drum

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 resin-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.

STORAGE

Store the material at temperatures between + 5° C and + 25° C in originally sealed packages, the material can be stored for 6 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.

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 in 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.

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