

REF: 4421DS

Issued: 10th September 2020

LEESON HA-1 PURA4421 PURE POLYUREA

DESCRIPTION

PURA4421 is a fast setting, hand applied two component pure polyurea coating. It is 100% solids and contains no VOCs.

It has been developed as a high strength rigid material for use as a coating onto prepared concrete. It is applied by squeegee or trowel. The product benefits from fast film build up and quick cure times.

Typical applications include waterproofing of roofs and balconies, where high abrasion resistance, flexibility and durability are required.

PRODUCT FEATURES

Pure Polyurea	Low sensitivity to moisture during application
Zero VOCs	100% solids, no VOCs
Film Properties	High degree of flexibility combined with tensile strength gives excellent durability and abrasion resistance
Chemical Resistance	The cross-linked properties of PURA4421 gives excellent resistance against a variety of chemicals such as acids and alkalis.

For specific information on using this product please consult Leeson Polyurethanes.

TECHNICAL DATA

Criteria	PURA4421 Polyol	PURA4421 NCO
Colour	Green (Other Colours Available)	Unpigmented
Ratio by Weight:	9.6	90.4
Density at 20°C (g/cc)	1.08	1.19
Viscosity at 23°C (mPa.s)	550 ± 250	12,000 ± 2,500
Pot Life at 19°C (min)	8- 15	
Tack Free Time at 19°C (min)	30	
Typical Overcoat Time at 19°C (min)	45	
Shore Hardness, Shore A	90 - 95	
Application Temperature - Substrate	+5°C to + 45°C	
Application Temperature - Air	+5°C to + 45°C	
Tensile Strength (N/mm ²)	9.6	
Elongation at Break (%)	450	

APPLICATION

PURA4421 Flexible membrane is designed for use in applicators where a seamless waterproof system is required.

Surface Preparation

Ensure the surface is prepared according to Leeson Polyurethanes Method Statement.

Priming

The use of E4489 or E4568 Epoxy primer, blinded with sand, is required for use with this membrane.

Mixing

Ensure that both components are mixed well before pouring the Polyol component into the NCO component. The two components should be mixed together in the NCO pail for 1 minute using a high torque helical blade mixer ensuring a homogeneous green colour is achieved.

Application

The PURA4421 should be poured immediately onto the surface. The product should then be pushed out, using a squeegee, to the required thickness.

It is recommended that the product is applied at temperatures greater than 10°C

Curing

PURA4421 should be allowed to cure for a minimum 2 hours at 20°C and a maximum 24 hours at 20°C prior to overcoating. The cure time will be extended at low temperatures.

STORAGE

Stored in unopened original containers, PURA4421 Polyol will have a shelf life of one year.

Stored in unopened original containers, PURA4421 NCO will have a shelf life of 6 months.

Store between 5 and 25°C.

HEALTH & SAFETY

PURA4421 Polyol: Ensure the Health and Safety documentation had been read before using this product.

PURA4421 NCO is classified as Harmful. Ensure the Health and Safety documentation had been read before using this product.

- Use industrial safety gloves.
- Use suitable eye protection.
- Before use, ensure that you have read the relevant Health & Safety Data Sheets for this product.

The company will supply, upon request, individual advice in writing in connection with the use and application of its products in all appropriate cases. Customers are urged to make use of this service. This leaflet is provided for general guidance only. All recommendations and suggestions are made in good faith but without guarantee and are subject to the company's terms and conditions.