

ALCHEMIX[®] PU 3436F

*Two Part, Hydrophobic Polyurethane System
75 – 85 Shore A Hardness*

ALCHEMIX PU 3436F is a tough, elastomeric polyurethane system specifically formulated for use as a shock absorber in off shore applications. ALCHEMIX PU 3436F is exceptionally hydrophobic and will cure in damp conditions or when completely submerged in water.

Special Features

- Short pot life
- Exceptionally hydrophobic
- Tough and durable
- Excellent resistance to oil

Mix Ratio

By Weight **PU 3436FA : PU 3436FB**
100 : 20

Product Data

Property	Units	PU 3436FA	PU 3436FB	Mix
Material	-	Formulated Polyol	Isocyanate	Pitch based Polyurethane
Appearance	-	Black Liquid	Brown Liquid	Brown liquid
Viscosity (25 °C)	mPa.s	1800 – 2800	20 – 30	800 – 1400
Density (25 °C)	g/cm ³	1.25 – 1.30	1.20 – 1.25	1.22 – 1.27
Pot life (200g, 25 °C)	Minutes	-	-	15 – 20
Cure Time	Hours	-	-	24
Full Cure Time	Days	-	-	7

Cured Properties

Properties	Standard	Units	Result (Full Cure)
Hardness	BS 2782: Part 3: Method 365B	Shore A	75 – 85

Mixing Instructions

ALCHEMIX PU 3436FA should be homogenised before use. Ensure that both components are at least 20°C before mixing. For best results, we recommend that ALCHEMIX PU 3436F be machine dispensed. To hand mix ALCHEMIX PU 3436F, add the correct amount of ALCHEMIX PU 3436FB to the ALCHEMIX PU 3436FA and mix thoroughly, making sure that the material at the sides of walls and at the bottom is well stirred in to the middle. Pour carefully and in one place into the mould in order to avoid air inclusion.

Curing

We recommend that ALCHEMIX PU 3436F be cured at ambient temperature. Full cure will take between 2 – 7 days depending on ambient conditions.

Storage

ALCHEMIX PU 3436FA and PU 3436FB should be stored in original, unopened containers between 20 and 25°C. ALCHEMIX PU 3436FB may crystallise partially or completely if not stored at above 20°C. Like all polyurethanes, both components are moisture sensitive. Moisture absorption will cause excessive aeration in cast parts. KEEP THE PACKING TIGHTLY SEALED WHEN NOT IN USE.

If stored under the above conditions, ALCHEMIX PU 3436FA and PU 3436FB will have a shelf life of 6 months, from the date of production.

Packaging

PU 3436FA is packed in 250kg drums.
PU 3436FB is packed in 225kg drums.

Further Information

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

Our technical advice, whether verbal, or in writing is given in good faith, but without warranty – this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended process and use.

Before using any of our products, users should familiarise themselves with the relevant Technical and MSDS provided by Alchemie Ltd.

Alchemie Limited

Alchemie Ltd develop, formulate and distribute Epoxy Resins, Polyurethane Resins, Silicones, Model Boards and Sheet Wax for use in the following applications:

- Electrical encapsulation
- Rapid Prototyping
- Prototypes
- Casting
- Gel Coating
- Laminating
- Model Making
- Master Models
- Flexible and rigid mould making

We offer fast service, technical support, development expertise, innovative products, diverse knowledge and experience.

We are a well-established company, with a high level of investment and experience. We implement BS EN ISO 9001.

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