TECHNICAL DATA SHEET

CHELFIX JOINTFLEX PU 700

High-Performance Polyurethane-Based, Two-Component Joint Sealant



Self-leveling, bitumen-modified polyurethane sealant for heavy-traffic joints, airport pavements and water-insulation joints.

DESCRIPTION

CHELFIX JOINTFLEX PU 700 is a two-component, bitumen-modified polyurethane-based joint sealant. It is self-leveling and suitable for heavy traffic and movement-prone joints.

The cured product offers resistance to sea water, jet fuels, hydraulic fluids, oils and a wide range of mild chemicals.

ADVANTAGES

- Cold-applied and solvent-free
- Resistant to jet fuels, oils and de-icing chemicals
- Good adhesion to concrete, stone and metals
- High movement accommodation factor
- Weathering and UV resistant

AREAS OF APPLICATION

- Airport aprons, runways and taxiways
- Structural floor joints and industrial areas
- Roads, parking lots, bus stations and gas stations
- Water-retaining structures including potable-water tanks
- Asphalt and concrete joints and cracks; TIX version for vertical use

STANDARDS

· BS5212:1990, Type N, F and FB.

· US Federal Specification SS-S-200E as Type M sealant.

TECHNICAL INFORMATION

Property	Declared value
Product type	Two-component bitumen-modified polyurethane joint sealant
Appearance / Color	Black or Grey
Consistency	Self-leveling
Density	1.37 ± 0.05 kg/L
Packaging	10 or 20 kg sets
APPLICATION PARAMETERS	
Application temperature	+5°C to +50°C
Pot life	35-45 min
Initial drying time	Approx. 1 hour
Recommended joint width	6 - 50 mm
Typical consumption	137 g/m for a 10 x 10 mm joint
Shelf life	12 months in unopened package in dry environment

PRODUCT FEATURES Self-leveling | Fuel & oil resistant | Heavy-traffic joint sealant

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PERFORMANCE PROPERTIES

Property / Test method	Declared value
Bond strength	1.5 MPa
Hardness (Shore A)	20-35
Elongation at break (ASTM D412)	≥ 600%
Elastic recovery (TS 5926 EN 14188-2)	98%
Movement capability	25%
Chemical resistance	Good resistance to mild alkalis, diluted acids and solvents
Special resistance	Sea water, jet fuels, hydraulic fluids and oils

JOINT PREPARATION

Joint width should not be less than 6 mm. Up to 6 mm width, joint depth should equal the width. For 10-30 mm joints, depth should be approximately half of the width.

For larger joints, depth should be at least half of the width. Backing materials may be used to control the joint depth.

SUBSTRATE PREPARATION

Surfaces must be clean, smooth, sound and completely dry. Remove weak parts and all dust, oil, rust and contaminants.

Before application, clean joints thoroughly by wire brushing, grinding or sandblasting and remove dust with compressed air.

MIXING & APPLICATION

Mix components A and B with a low-speed mixer until homogeneous. Apply within the pot life using suitable joint-filling equipment or by manual pouring.

Mask the joint edges when necessary to keep the surrounding surface clean. After placement, tool the sealant smoothly and remove masking tape before final cure.

CURING

Mixed material should be used within 35 minutes. The product dries within about 24 hours, gains mechanical strength within 48 hours, and reaches full strength in about 7 days.

LIMITATIONS

- Do not apply on moist surfaces.
- Protect from direct sunlight, temperatures above +50°C, rain and frost after application.
- Use the TIX version for vertical applications.

IMPORTANT NOTES

All applications should be carried out above +5°C. Surface moisture negatively affects adhesion.

CHELFIX PU Primer should be applied to the prepared joint grooves where required.

STORAGE & CLEANING

Storage: Keep unopened packages in a dry environment for up to 12 months.

Cleaning: Clean equipment immediately after use, before hardening, with CHELFIX Thinner.

HEALTH & SAFETY

Use protective gloves, goggles and suitable workwear. For detailed safety information, refer to the current Safety Data Sheet (SDS).

IMPORTANT INFORMATION

Values are based on laboratory testing and typical site conditions. Users must confirm the product is suitable for the intended application.