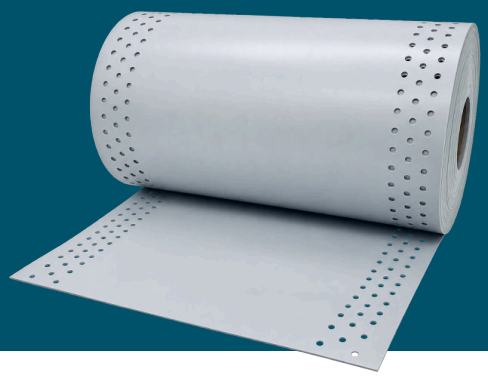
UNIFIX TPE

THERMOPLASTIC ELASTOMER EXPANSION JOINT TAPE



Product Features

UNIFIX TPE is a high-performance thermoplastic elastomer expansion joint sealing tape engineered to deliver permanent elasticity and watertight integrity across structural joints. Specifically developed to accommodate dynamic movement, it effectively bridges expansion joints, construction joints, and settlement gaps in wide-ranging building and civil engineering applications without compromising seal continuity.

To ensure maximum structural bonding and long-term durability, **UNIFIX TPE** is installed in system combination with high-performance **UNISTICK EA 5537**. Applying **UNISTICK EA 5537** along the joint edges creates an exceptional mechanical and chemical bond to the concrete substrate, locking the expansion tape securely in place while allowing its unbonded central zone to freely absorb structural shifts, thermal expansion, and hydrostatic pressure.

Advantages

High Resistance To Positive Water & Vapor Pressure
Hot-Air Weldable Joints
Over 500% Elongation
High Puncture And Fatigue Resistance
Resists Water Pressure Above 5 Bar
High UV Resistance

Fields of Application

Expansion Joints	Building Abutments & Interface Joints
Parapets	Swimming Pool
Wide and Irregular Cracks	Basements & Underground Structures
Exposed Roof Decks & Terraces	Water Reservoirs

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Physical Properties

Material	:	Thermoplastic elastomer (TPE) sealing tape	
Colour	:	Grey	
Size & Packaging	:	UNIFIX TPE UNISTICK EA 5537	: 200mm x 1mm x 25m / 300mm x 1mm x 25m : 5kg / set
Roll Length	:	UNIFIX TPE	: 25m / roll

Technical Properties

Property	Test Method	Values
Thickness, (mm)	DIN EN 1849 - 1	1 mm
Tensile Strength (Transverse)	EN-ISO 527-3	4.7 MPa
Tensile Strength (Longitudinal)	EN-ISO 527-3	4.8 MPa
Elongation at Maximum Load (Transverse)	EN-ISO 527-3	580 %
Elongation at Maximum Load (Longitudinal)	EN-ISO 527-3	532 %
Tear Propagation Strength (Transverse)	EN-ISO 12310-2	48 N
Tear Propagation Strength (Longitudinal)	EN-ISO 12310-2	42 N
Hardness	ISO 868	70 Shore A
Water Pressure Resistance	EN 1928	> 5 Bar
Service Temperature	SIA V280/3+4	-30 / + 80 °C
Chemical Resistance	Water-based and bitumen-based foundation insulations, sea water, waste water, UV rays, hydrolysis and microorganisms	

Important Note / Special Note

- Do not move the tape until the epoxy adhesive at the edges is fully cured.
- Protect the surface against water and mechanical damage until fully cured.
- Curing time of adhesive changes according to weather conditions.
- Do not apply during rain.
- Protect applied materials from rain, freezing, foot traffic, and continuous high humidity until completely dry.

Shelf Life & Storage

UNIFIX TPE has a shelf life of **24 months** when stored unopened in its original packaging in a dry, cool place away from direct sunlight.

Health & Safety

UNIFIX TPE tape presents no health hazard in normal handling. **UNISTICK EA 5537** is an epoxy adhesive: wear gloves and goggles, avoid skin and eye contact, and follow its safety data sheet.

This technical data sheet is given in good faith and does not guarantee the application work.
All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice.
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Installation Procedures

1 Surface Preparation

2 UNISTICK EA 5537 Application

3 UNIFIX TPE Expansion Joint Tape



Step 1
SURFACE PREPARATION

Clean the surface thoroughly of dust, curing compound, oil and grease. Remove protrusions and unsound or friable concrete, and repair with a concrete repair mortar.

Step 2
UNISTICK EA 5537 APPLICATION

UNISTICK EA 5537 is two-component. Mix **Component A (3.4 kg)** and **Component B (1.6 kg)** with a low-speed mixer until homogeneous.

Using a trowel or spatula, apply **UNISTICK EA 5537** about **1.0 – 1.5 mm** thick on both edges of the joint, at least **40 mm** wide on each side for the 200 mm tape and **50 mm** for the 300 mm tape. Work the adhesive well into the substrate to ensure a strong bond.

Step 3
UNIFIX TPE EXPANSION JOINT TAPE

Cut the tape to length. Where lengths must be joined, weld them with a hot-air gun before application; **UNISTICK EA 5537** cannot be used for splicing. Lay **UNIFIX TPE** onto the adhesive and press with a roller for full contact.

Apply a second layer of **UNISTICK EA 5537**, **1.0 – 1.5 mm** thick, over the edges of the tape, overlapping the tape edge by at least **20 mm**, and leave it to harden. Do not move, lift or load the tape, and protect it from water, until the adhesive has fully cured. Curing is slower in cold weather and faster in hot weather.

Note: The application temperature should be between 5°C and 55°C. Application procedures may vary slightly depending on site conditions; the steps above are general guidelines for the application of the waterproofing system.

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