

IZOMAX® Band D-TPE

Thermoplastic Elastomer (TPE) Based Movement Joint Tape

Product Description

IZOMAX® Band D-TPE is a flexible movement joint tape based on thermoplastic elastomer (TPE), with high tensile strength in both the longitudinal and transverse directions.

Fields of Application

- Expansion (movement) joints and cracks subject to high movement
- Basements, foundation and retaining wall junctions
- Tunnels, channels and infrastructure structures
- Swimming pools and water tanks
- Wastewater treatment plants

Advantages

- Accommodates high joint movement with 680% longitudinal and 710% transverse elongation at break
- Can be joined by hot-air welding, forming a continuous and watertight seam
- UV resistant; suitable for outdoor applications
- Resistant to chemicals and sea water
- Permanently elastic; retains its shape
- Can be bonded to concrete, metal and natural stone substrates

Technical Properties

General Information	
Material composition	Thermoplastic elastomer (TPE)
Appearance	Grey homogeneous tape
Total thickness	2.0 mm
Weight per unit area	~ 1830 g/m ²
Hardness	~ 87 Shore A
Performance Data	
Burst pressure	≥ 5.0 bar
Tensile strength – longitudinal / transverse (EN 12311-2, Method B)	10 N/mm ²
Elongation at break – longitudinal / transverse (EN 12311-2, Method B)	680% / 710%
Water vapour diffusion resistance, sd (EN 1931)	125 m
Temperature resistance	–30 °C / +90 °C
UV resistance (EN ISO 4892-3)	≥ 6500 hours
Chemical Resistance	
Hydrochloric acid	3%

Sulphuric acid	35%
Citric acid	100 g/l
Lactic acid	5%
Potassium hydroxide	3% – 20%
Sodium hypochlorite	0.3 g/l
Salt water	20 g/l sea salt
Application Data	
Application temperature	+10 °C / +30 °C
Jointing method	Hot-air welding
Suitable substrates	Concrete, metal, natural stone
Safety Information	
Reaction to fire class (EN ISO 11925-2 / EN 13501-1)	E
Hazardous substances	See SDS

The stated technical values were obtained at +23 °C ambient temperature and 50% relative humidity.

Application Instructions

Surface Preparation

The substrate must be sound, load-bearing, dry, clean and free from dust. Oil, rust, paint residues and loose particles that impair adhesion must be removed.

Installing the Tape

TAMCRETE® ERM 75 epoxy-based repair and fixing mortar must be used for bonding IZOMAX® Band D-TPE. The adhesive is applied along the joint in an even thickness so that it covers both edge zones of the tape. The tape is centred over the joint and pressed down with a trowel or roller from the centre towards the edges. The central zone of the tape must not be laid taut into the joint gap; it must be left free so that it can accommodate movement. No air voids may remain beneath the tape and excess adhesive must be removed before it sets. Tape joints are made by hot-air welding. The welding temperature and speed must be determined by trials on the material. Surfaces must be dry and clean before welding; a weld seam will not hold on a damp surface. The overlap must be at least 50 mm and the weld seam must be continuous. After welding, the seams must be checked visually and mechanically. To allow the adhesive to develop full strength, the tape should be kept in full contact with the substrate for 24 hours and not subjected to mechanical loading during this period. The tape must not be exposed to water or dust before the adhesive has reached full strength.

Storage Conditions and Shelf Life

Store in the original packaging between +5 °C and +25 °C in a dry place, protected from direct sunlight, with the rolls stored upright and no load placed on them. When stored correctly, the shelf life is 24 months from the date of production.

Safety Precautions

Work clothing, protective gloves and goggles complying with occupational health and safety requirements must be used during application. Care must be taken against the risk of burns during hot-air welding and the work area must be ventilated. For further information, refer to the Safety Data Sheet.

Liability

Our company is responsible only for the quality of the product. Any use of the product outside the scope of the written technical recommendations, including incorrect application or use under unsuitable conditions, is entirely the responsibility of the user. For further technical information, please refer to the product catalogue or contact our representatives.

Packaging

150 / 200 / 250 / 300 / 350 / 400 mm width – 25 m/roll

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