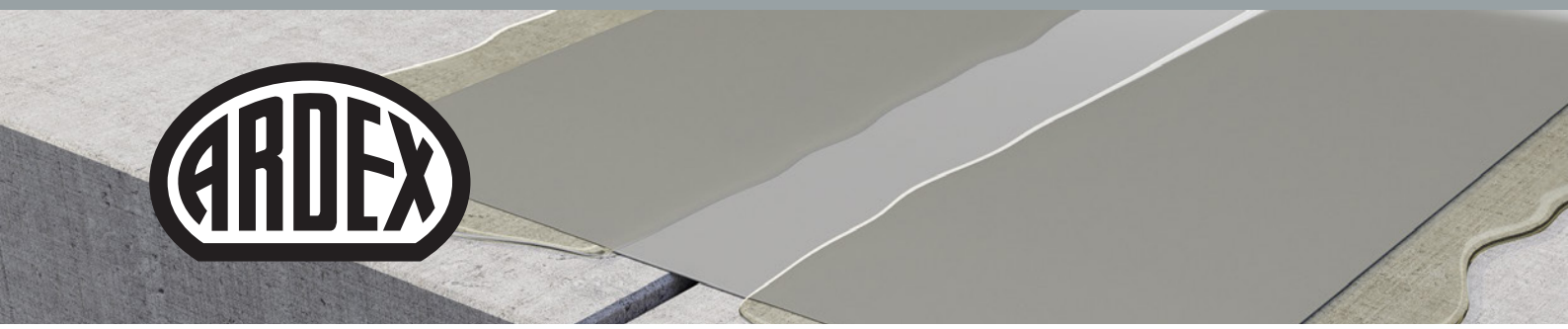
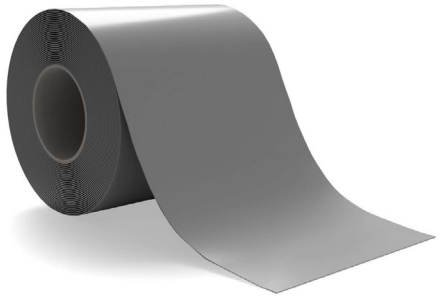


ARDEX DILATATION TAPE

Waterproofing, FPO Dilatation Tape

- Strong and permanent elasticity
- High mechanical, chemical and adhesion strength
- Wide size options
- High tear and puncture resistance
- Resistant to UV rays and outdoor weather conditions
- High usage time
- Easy to apply



Description

High performance FPO (Flexible Polyolefin) based dilatation tape used especially for moving joints, wall and floor junctions exposed to high stresses.

Resistant to UV rays and external weather conditions and has high mechanical, chemical and adhesion strength. It is tear and puncture resistant, permanently elastic, suitable for use in drinking water tanks, and easy to repair in case of damage.

Resistant to environmental influences and aggressive environments. It does not lose its elasticity even at high and low temperatures.

Use

Internals and externals. For horizontal, vertical and overhead applications.

Used under the areas covered with suitable adhesive or sealing materials, in the insulation of irregular and wide cracks, in covering the movements in cold joints and dynamic cracks formed in floors and curtains, and in waterproofing.

It is used at the joints of different building materials such as steel construction and reinforced concrete.

Can be applied to concrete, plaster, screed, epoxy or cement-based repair mortar, wood, sheet metal, aluminum, FRP, epoxy, natural and artificial stone and similar surfaces.

General usage areas are as follows:

- In horizontal and vertical applications in expansion joints.
- In swimming pools, water tanks, wastewater units and treatment facilities.
- In all kinds of engineering structures such as dams, highways, tunnels and subways.
- In external areas, in building separations and isolation of construction joints, in high movement joints
- Foundation and curtain concrete, underground structures, raft foundation curtain connections made from internal and external, building annexes and protrusions.
- Elastic waterproofing of floor-parapet connections in wet areas such as terraces, balconies and exterior facades.
- In shopping malls, multi-storey car parks and parking areas.

Substrate Preparation

The substrate must have a tensile strength higher than 1.5 N/mm², must be dry (residual humidity less than 4%), hard, solid and free of laitance, grease, oils, waxes, dust or other loose particles such as paint, release agents, limescale, mortar, plaster, adhesive residues, etc., which may impair adhesion to the substrate.

The floor should be cleaned with a vacuum cleaner before applying ARDEX Dilatation Tape. For heavily watered or weak concrete surfaces, adequate and comprehensive mechanical preparation is essential. Dust and other residues must be cleared from the floor, if any, they must be cleaned with the help of a vacuum cleaner or vacuum equipment.

Necessary precautions should be taken for dilatations where water pressure is observed on the negative side.

The surfaces to be applied must not contain pits, breaks or cracks. Such errors should be corrected with ARDEX A46 cement-based repair mortar or ADIPOX EP 1000 epoxy repair and filling mortar before application.

ARDEX Yapı Malzemeleri Limited Şirketi
İstanbul Deri Organize Sanayi Bölgesi Desen Sk.
No:14/A C1 Özel Parsel Tuzla/İstanbul/TÜRKİYE
Tel.:+90 (216) 394 0114 Faks:+90 (216) 394 0377
info@ardex.com.tr - www.ardex.com.tr

ARDEX DILATATION TAPE

Waterproofing, FPO Dilatation Tape

Application

Depending on the length of the expansion joint to be applied, ARDEX Expansion Tape is cut with scissors or a utility knife.

ARDEX WA epoxy adhesive should be used to fix ARDEX Dilatation Tape. ARDEX WA * epoxy adhesive is two-component. 3 kg of the main product present in the packaging container is fully mixed with 1 kg of hardener and mixed vigorously with a spiral mixer for approximately 4-5 minutes until a homogeneous mixture is obtained. Approximately 1.0 – 1.5 mm thick ARDEX WA is applied to both dilation cheeks with the help of a trowel and spatula. To ensure strong adherence, the adhesive must be thoroughly absorbed into the floor during application.

ARDEX Expansion Tape is laid on the expansion joints on the expansion joints where epoxy adhesive is applied, and full contact is ensured between the ARDEX Expansion Tape and the ARDEX WA epoxy adhesive layer with the help of a suitable trowel or roller. Similarly, ARDEX WA epoxy adhesive is applied to the upper surface of the tape. The application is made with a thickness of 1.0 - 1.5 mm and overhanging the band by at least 20 -30 mm and allowed to harden.

In cases where splicing is required, the tapes are prepared by boiling with a hot air gun before application. Epoxy adhesive is not used for this process.

Additional areas should be smoothed with 80 grit sandpaper before application. The jointing should be done by overlapping the material to be manufactured by 10 cm, and after the previously heated hot air source is held and melted. Care should be taken to ensure that no air remains under the joint.

*For ARDEX WA Epoxy Adhesive mixing and usage instructions, please review the relevant technical data sheet.

To be Considered

The tape should not be moved, lifted, protected against water and should not be mechanically stressed until the adhesive has fully hardened. It should be taken into consideration that the drying time of the adhesive will be longer in cold weather and shortened in hot weather.

Due to technical reasons, the color of the material or printing may vary slightly from batch to batch.

If a clean finish is desired, paper tape can be applied before the first and second coat of epoxy adhesive application. Paper tapes must be removed before the glue dries.

Appropriate expansion corner tapes should be used for interior and exterior corner applications.

The product can be melted with standard hot air dryers (recommendation ≥1500 watts / 340°C). It is important to choose a low temperature setting so that only the band surface melts so as not to affect the tightness of the product. The parts to be welded should be roughened or sanded. Please pay attention to our transaction instructions.

ARDEX Dilatation Tape should be removed from its packaging immediately before application. Care should be taken to ensure that piercing and cutting tools do not damage the structure of the tape before and after application.

In order for the dilatation band to provide the desired elongation, care should be taken not to glue the middle parts. Adhesive should not be smeared on the flexible middle part.

If sliding insulation will be applied after the application of ARDEX Dilatation Tape, the insulation material should be brought up to the epoxy adhesive parts and continuity should be ensured.

Safety Warnings and Disposal

Appropriate safety equipment (mask, gloves, glasses) should be used during application. After application or during breaks, care should be taken to maintain personal hygiene, especially washing hands. When removing the gloves, care should be taken not to contaminate the inner parts.

Disposal of waste or empty packaging must be done in accordance with the regulations.

For detailed safety information, please read the Material Safety Data Sheet.

Technical Data According to ARDEX Quality Standards

Product type:	FPO (Flexible Polyolefine)
Colour:	Grey
Resistance to Temperature:	min / max -30°C / +90°C
Available widths:	widths between 100 mm and 1000 mm
Thickness:	1 mm or 2 mm (upon request)
Total Weight:	1020 +/- 60 g/m²
Tear resistance - lengthwise:	13,2 N/mm² (DIN EN 12311-2 / Version B)
Tear resistance (nail shank) lengthwise:	265 N (DIN EN 12310-1)
Tear resistance - across	8,8 N/mm² (DIN EN 12311-2 / Version B)
Tear resistance (nail shank) - across:	275 N (DIN EN 12310-1)
Elongation at break - lengthwise:	%980 (DIN EN 12311-2 / Version B)
Elongation at break - across	%800 (DIN EN 12311-2 / Version B)
Water vapour permeability:	98 m (DIN EN 1931 / Version B)
UV-resistance:	≥ 6500h (DIN EN ISO 4892-3)
Shore A hardness:	approx. 87
Bonding strength:	≥ 3 N/mm² (DIN EN 1348) (in dependence of the used adhesive)
Burst Pressure:	≥ 3,6 bar
Water Tightness:	Watertight (DIN EN 1928-A / DIN EN 1928-B)
Reaction to Fire:	Class E (DIN ISO 11925-2 / EN 13501-1)
Chemical Resistance:	To Hydrochloric acid, Sulphuric acid, Citric acid, Lactic acid, Potassium hydroxide, Sodium hypochlorite, Salt water and further substances
Package	20 meter roll
Storage and shelf life:	maximum of 12 months – it is essential that goods are kept in the original packaging, keep cool and dry, protect against sunlight. If packaging film has been opened apply the material within 2 months.

25.12.2023/EB