

PROFLEX SYSTEM

INCLUDING WYKAMOL PROFLEX TAPE AND EP PROFLEX ADHESIVE

COLOUR
GREY

01

TECHNICAL DATASHEET

WYKAMOL PROVIDING A SOLUTION TO EVERY PROBLEM

High performance joint and crack sealing system for joint and crack sealing for construction joints, expansion (movement) joints and connection joints or cracks. The system allows variable and high levels of movement in one or more directions, whilst maintaining a high-quality watertight seal.

Wykamol EP Proflex Adhesive

EP Proflex Adhesive is an epoxy resin-based solvent-free, thixotropic, structural two-part building adhesive and repair mortar.

Designed to give excellent moisture tolerance and water resistance, EP Proflex Adhesive is designed for use at temperatures of 50C and 300C. Specifically developed with a lower mixed viscosity for easier workability at low temperatures and excellent adhesion to damp surfaces, which is usually common within the building industry.

EP Proflex Adhesive bonds well to most building materials including concrete, stone, brick, wood, glass and metal. Due to its excellent adhesion, it can also be used for adhering building materials, including brick slips, onto glass reinforced plastic (GRP) bases.



APPLICATION AREAS

- Joint waterproofing tape for walls
- Floor junctions
- Construction joints
- Movement joints
- Expansion joints
- Structural joints
- Connection joints.



PROFLEX

HIGH PERFORMANCE JOINT
& CRACK SEALING SYSTEM

Call our technical support team on 0845 400 6666 For more information visit www.wykamol.com

Characteristics/Advantages

- 3:1 mixing ratio by weight or volume
- Thixotropic, ideal for vertical and overhead applications
- Ideal for repairing corners and edges
- Gap, joint and crack filling
- No shrinkage
- Impermeable to liquids
- Bonds to damp surfaces
- Excellent adhesion even on damp surfaces
- High impact resistance and mechanical strength
- Good colour for easier colour matching

Substrate Preparation

Mortar and concrete should ideally be older than 28 days, but may depend on the user's minimal requirement of strength.

The substrate should be clean, dry and free of dirt, oil, grease or surface treatments and coatings. Remove all loose friable material to achieve a textured surface.

Application and Mixing

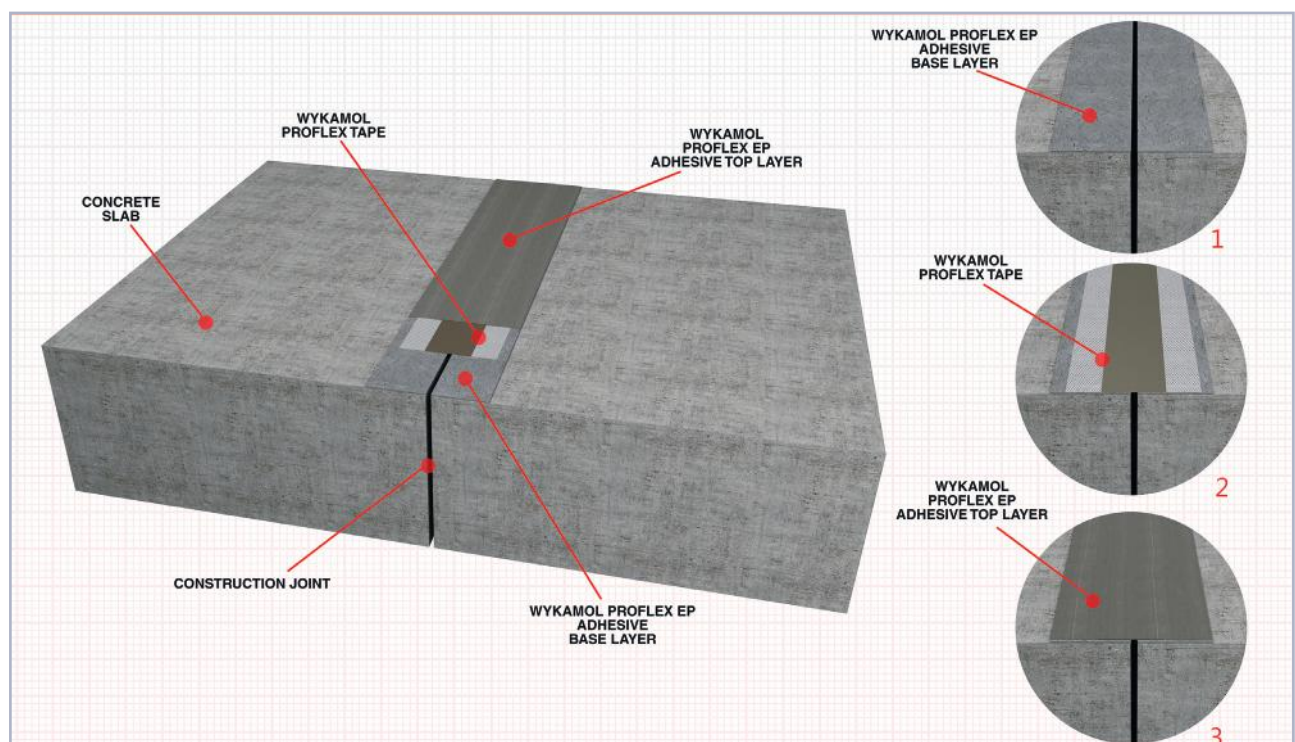
Mix the base and hardener 3:1 by volume or weight respectively with a folding action to minimise air entrapment. Ensure a uniform colour is achieved before application. Apply the mixed adhesive to the prepared surface using a spatula or trowel. When applied to moist or wet surfaces work the adhesive well into the substrate surface. Ensure components are fully supported during curing to prevent any slippage. Clean all tools immediately after use with thinners as cured material can only be removed mechanically.

IMPORTANT

The information and recommendations provided are given in good faith based on our current knowledge and experience. However, the differences in substrates, materials and site conditions are such that no warranty or fitness for a particular purpose can be inferred from this information or any written recommendations. The user must test the product's suitability for the intended use.

Construction joints and static cracks

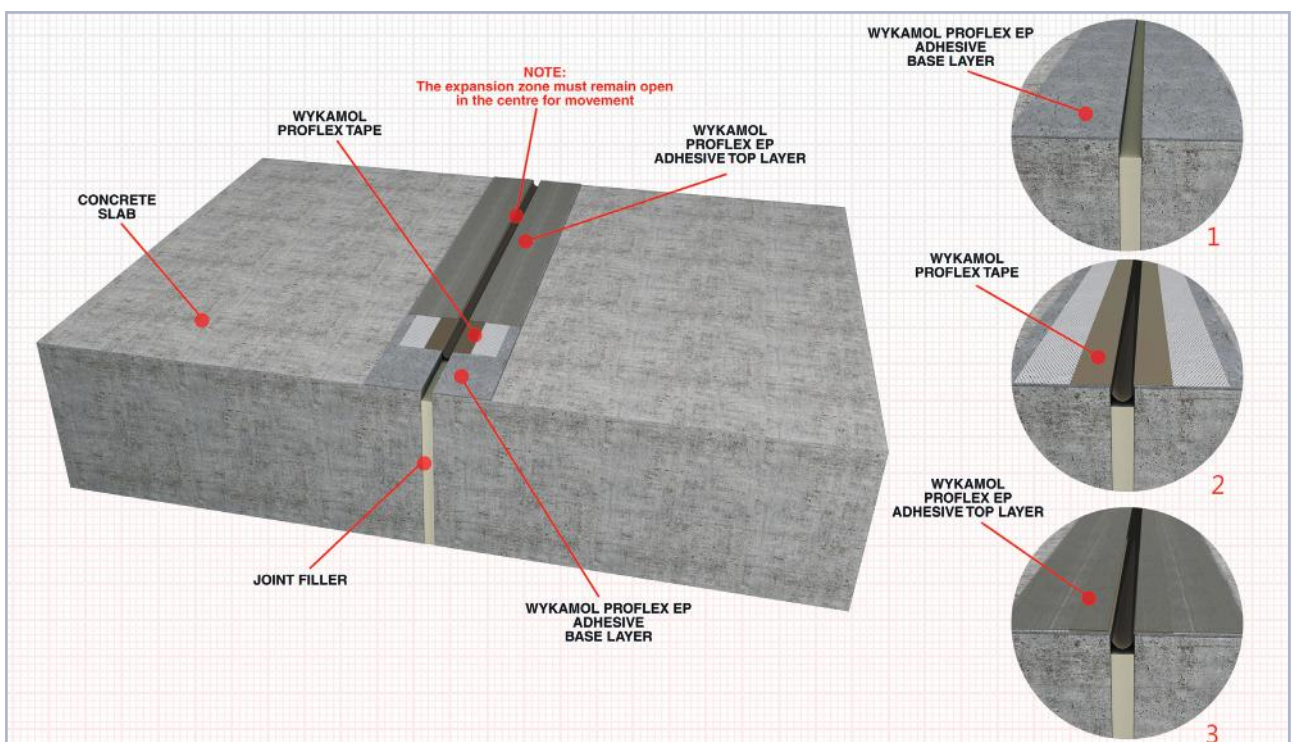
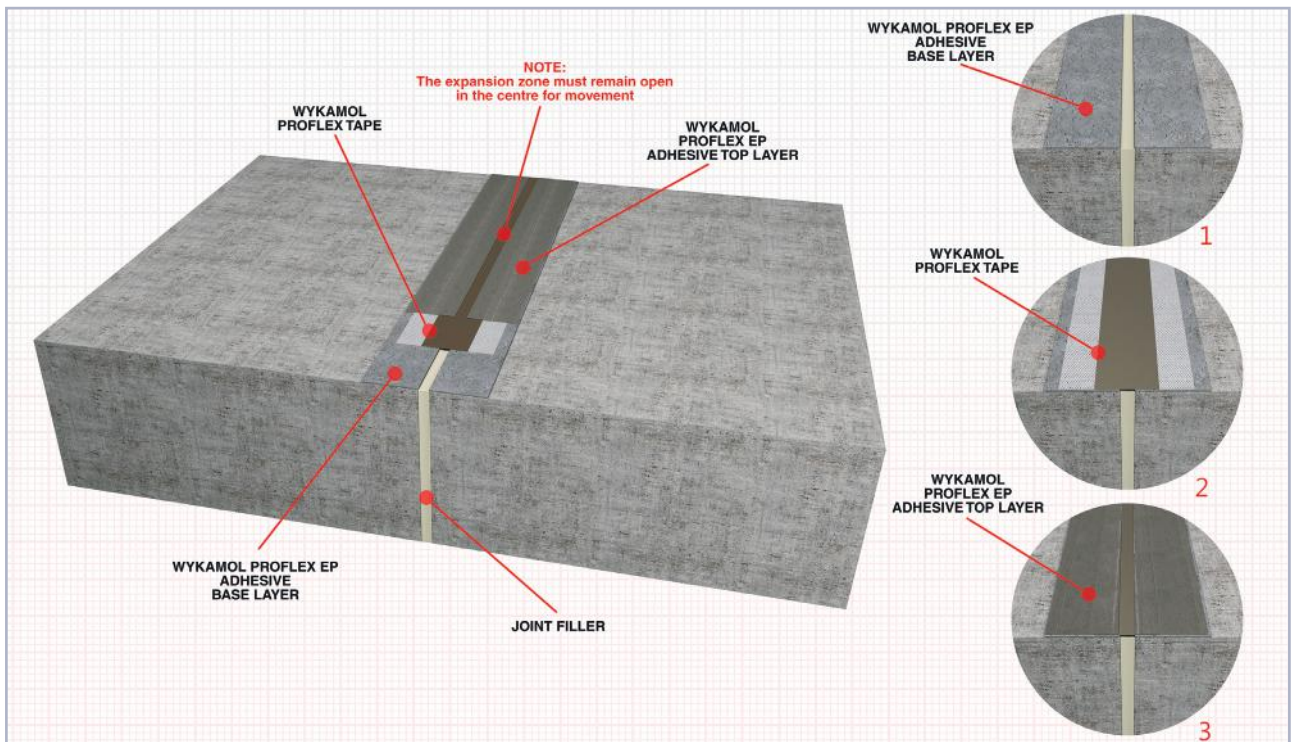
Construction joints or **connection joints** are formed by the operational subdivision of structures into sections, such as for the daily completion of concreting stages, also called day work joints. **Static cracks** occur due to differential movement such as settlement or other loads and stresses imposed on sections or elements of the structure etc.



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Movement joints

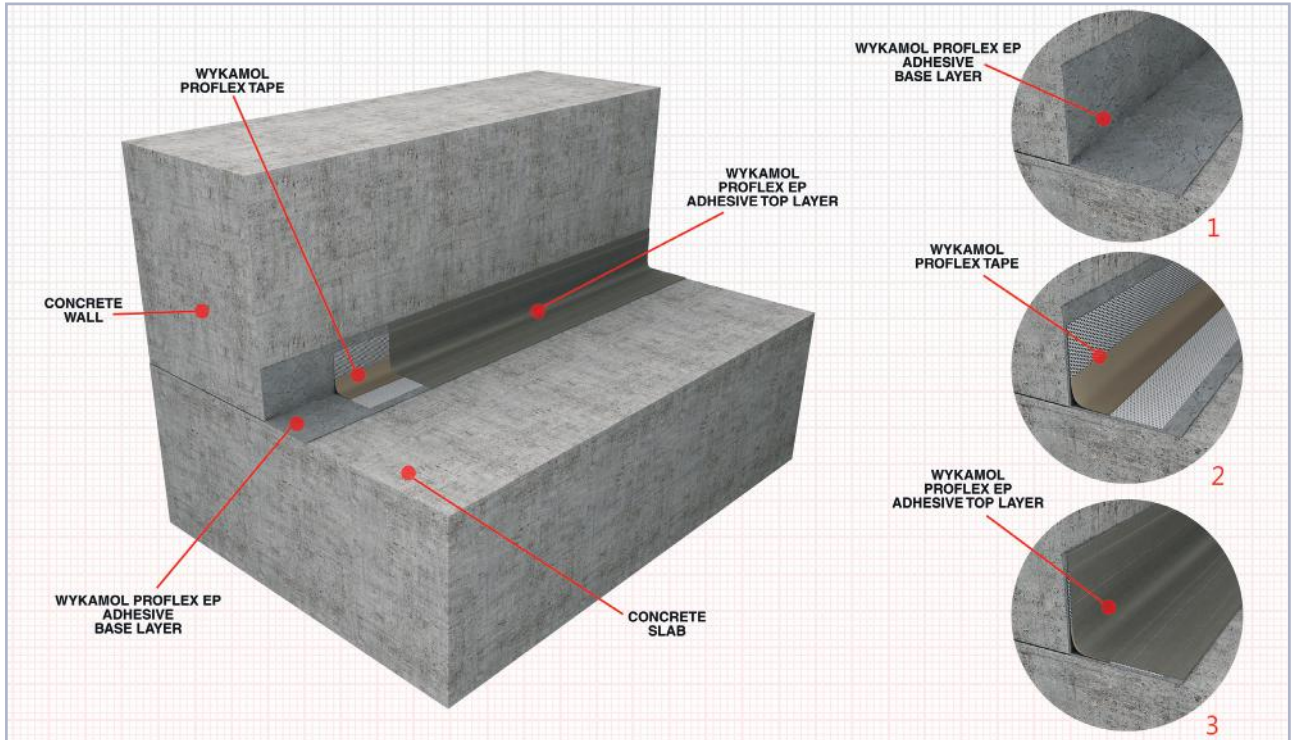
Movement or expansion joints separate structural elements and compensate for movements caused by the effects of heat, ground settlement or loads imposed on the structure.



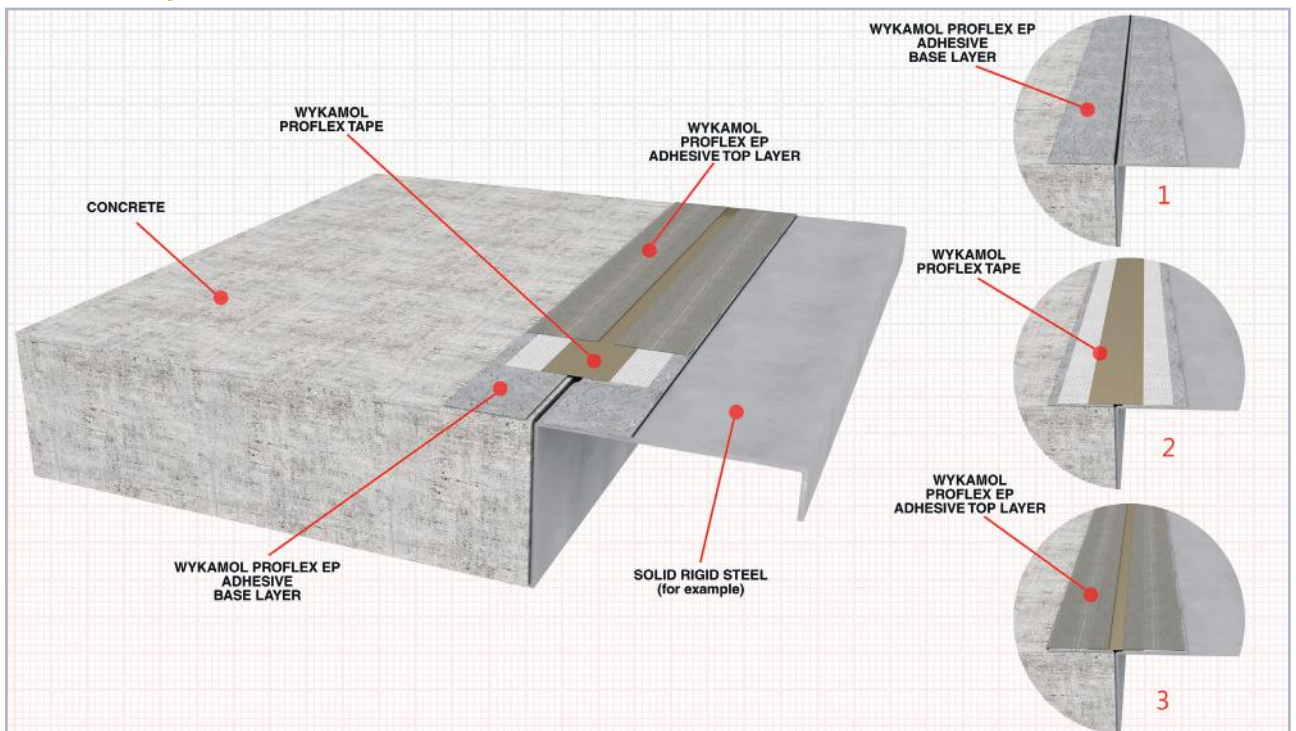
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Angled (wall/floor junctions for example)

Where there is mechanical impact anticipated, the Wykomol Proflex Tape should be protected by filling behind the coving and additional surface protection as necessary



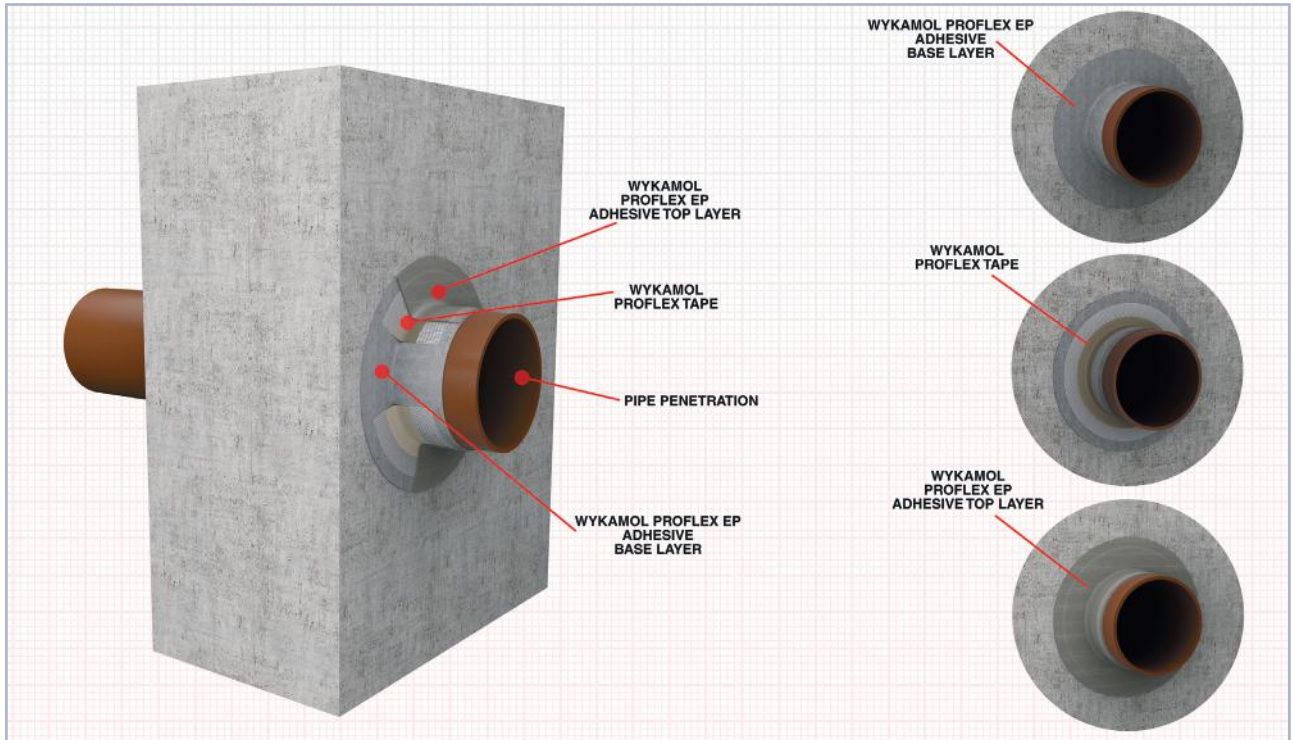
Connection joints for example connections to lift shafts, steels, beams etc.



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Pipe penetrations

Note. Basement wall with service entry ducts, Check adhesion of the epoxy on the service ducts / pipes, alternatively check adhesion on their clamped connections as appropriate.



PREPARATION AND INSTALLATION

Concrete, cement mortar, natural stone

These substrates must be mechanically prepared for example by grinding, blast cleaning, to be free from any cement laitance, damaged concrete, old surface treatments or coatings and then all loose or friable materials/particles must be removed to achieve a contaminant free, open textured surface.

Construction Steel

Grinding or blast cleaning or equivalent mechanical means followed by thorough vacuum / dust removal. Avoid dew point or moisture conditions during application.

Stainless Steel

Light grinding followed by thorough vacuum/dust removal. Avoid dew point or moisture conditions during application.

Epoxy resin, polyester, ceramic and, glass substrates

Light abrasive roughening followed by thorough vacuum and dust removal. Do not apply to siliconized or silicone oil treated substrates (debonding agent). Avoid dew point or moisture conditions during application.

Surface preparation

The concrete must be structurally sound and clean. Mechanically remove cement laitance, loose or friable areas, old coatings etc. (scabble, blast clean, abrade etc).

Pre-fill and level any larger surface holes and voids with suitable epoxy products or other compatible materials. Re-profile large uneven areas in the same way. The cleaned surface must be free from dust, oil and grease etc. The substrate must be as dry as possible before and during the application and curing.

Masking tape

For installation on expansion joints or cracks, the centre of the Wykamol Proflex tape must not be "bonded" to the joint filler or substrate. In these situations, apply masking tape on top of the joint / crack and on both outer sides of the prepared joint/crack area before applying the adhesive.

Masking tape should also be applied to the centre of the Proflex tape before the top layer of the Proflex EP Adhesive is applied and removed when complete.

Tape preparation

If there is any dirt on the tapes clean their surface with a clean, dry or damp cloth. Use water and no solvents for this cleaning. Check the integrity of the Wykamol Proflex Tapes to ensure that there is no damage from storage and transport. Remove any damaged sections if necessary.

Base layer of Wykamol EP Adhesive

Apply the mixed Wykamol EP Adhesive on both sides of the joint / crack onto the prepared substrate using a suitable trowel or spatula. If the concrete substrate is damp, force the adhesive firmly into the substrate. The thickness of this layer of adhesive should be minimum 2mm and the width on each side of the joint / crack at least minimum 50 mm. Before placing the Wykamol Proflex Tape remove the masking tape with epoxy on top of the central expansion joint / crack area.

Wykamol Proflex Tape application

Apply the Wykamol Proflex tape within the open time of the adhesive. Press the tape firmly, without entrapping air, into the adhesive using a suitable roller. The adhesive should be squeezed out on both sides of the tape.

In situations with high joint movement, place the tape into the joint as a loop. Masking tape should also be applied to the centre of the Proflex tape over the joint/crack before the top layer of the Proflex EP Adhesive is applied and removed when complete.

Top layer of Wykamol EP Adhesive adhesive

Let the base layer of the Wykamol EP adhesive stiffen and begin to harden before the top layer is applied. Apply the top layer of adhesive at a thickness of > 1mm on both sides of the joint/crack, producing a fully covering layer which tapers outwards to almost zero.

Remove masking tape

Remove the outer edge masking tapes, then remove the middle strip of masking tape whilst the epoxy is still fresh to ensure a neat and precise detail.

PROFLEX TAPE - SPECIFICATIONS

Colour	:	Grey
Total width / Coating width	:	120 mm /70 mm (additional widths on request)
Total thickness	:	approx. 0,66 mm
Material weight	:	approx. 38 g / mt
Resistance to temperature	:	min. / max. - 30°C / + 90°C
Length per roll	:	50 meters

Chemical Properties

Resistance after storage over 7 days by room
+ = resistant, 0 = weakened, - = non resistant
temperature in following chemicals

Hydrochloric acid 3%	Internal	+
Sulphuric acid 35%	Internal	+
Citric Acid 100g/l	Internal	+
Lactic Acid 5%	Internal	+
Potassium Hydroxide 3%/20%	Internal	+ / 0
Sodium Hypochlorite 0.3g/l	Internal	+
Salt Water 20g/l Sea Water Salt	Internal	+

PHYSICAL PROPERTIES (approx.)	DIN	Value
Burst Pressure: max	Internal	3,0 bar
Tensile strength longitudinal	DIN EN ISO 527-3	115 N/20mm
Tensile strength load lateral	DIN EN ISO 527-3	46 N/20mm
Tear Resistance Lateral	EN-ISO 527-2	48 N/mm ²
Tear Resistance Longitudinal	EN-ISO 527-3	52 N/mm ²
Shore	ISO 868	70 Shore A
Peel Strength	DIN 16860	>20 N/10mm
Service Temperature	SIA V280/3+4	-30°C/+90°C
Density	-	38 gr/mt
Maximum elongation longitudinal	DIN EN ISO 527-3	%29
Maximum elongation lateral	DIN EN ISO 527-3	%139
Resistance to water pressure	DIN EN 1928 (Version B)	>1,5 bar
UV-Resistance: min	DIN EN ISO 4892-2	500 h

ISO 9001	-	Quality Management
ISO 14001	-	Environmental Management
ISO 18001	-	Occupational Health and Safety Management

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Warranty: 5 years warranty for the guaranteed product qualities

Attention: Due to technical reasons the colour of the material or the printing may vary slightly from batch to batch.

Storage: 24 months from date of production if in undamaged unopened original sealed containers in dry conditions between +5°C and +30°C. Certified according to DIN EN ISO 9001: 2008

PROFLEX EP ADHESIVE - SPECIFICATIONS

Product Data

Colour – Base Hardener	Off White Buff/grey
Sag flow	Non sag on vertical surfaces up to 20mm thickness
Shrinkage	Negligible
Gel time – 100g mass at 20°C	90 minutes
Cure time – Initial Full cure	5 hours 5 days
Application temperature	5 – 30° C
Coverage per Kg	0.7 m ²
Compressive strength	> 50N/mm ²
Density	1.4 g/cc
Shelf life	Indefinite in unopened containers

Health and Safety Information

EP Proflex Adhesive contains epoxy constituents and is classified as an irritant and may cause sensitisation on repeated skin contact. The hardener component is classified as corrosive. For further information and advice, users should refer to the most recent safety data sheet.



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