

# RASCOjoint TPE-Waterbar

## BONDED SYSTEMS

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The RASCOjoint TPE-Waterbar is based on thermoplastic elastomers and supplied in rolls. Application and installation are very simple and efficient. The RASCOjoint TPE-Waterbar does not need to be activated either to join two rolls together or to apply it to the building fabric and can therefore be applied directly from the roll. It is bonded to the prepared base using RASCObond EP-Adhesive Filler (epoxy resin-based adhesive).

### USE

The RASCOjoint TPE-Waterbar is used to waterproof construction and movement joints, cracks, tie bolt locations and as a full-surface membrane against water with and without hydrostatic pressure. It is used on new-build and refurbishment projects. Bonded waterbars should, if possible, always be applied on the water side. If this is not possible, the RASCOjoint TPE-Waterbar can also be applied on the non-water side, provided the water pressure does not exceed 4 bar.

The RASCOjoint TPE-Waterbar is available in thicknesses of 1 mm or 2 mm to accommodate different mechanical action. Both thicknesses are available in different widths.

### FEATURES

- very easy to weld (hot-air gun)
- fittings can be easily cut to size with a knife
- permanently elastic
- high chemical resistance
- UV-resistant

### EXPERT REPORTS

- various reports on request



Further product info



LEGAL NOTICE: The information provided on the use and application of our products in this technical data sheet is based on the present state of our knowledge. The customer shall bear sole responsibility for the proper specification, application and use of the products in line with the intended purpose, project-specific conditions and external actions. The most recent technical data sheet shall apply. The current technical data sheets are available at [www.rascor.com](http://www.rascor.com). Our General Terms of Business shall form an integral part of this technical data sheet.

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## TECHNICAL/PHYSICAL DATA

Size	length 20 m width 100 mm up to 2000 mm thickness 1 mm or 2 mm
Colour	grey
Supplied form	solid
Chemical base	thermoplastic elastomer (TPE)
Hazardous goods/ADR	none
Elongation at rupture to DIN 53504 S2	approx. 600 %
Tear propagation resistance to DIN 53363	approx. 600 N/cm
Folding endurance in cold conditions to SIA V280-3	-30 °C, no tearing
Tensile strength to DIN 53504	> 6 N/mm <sup>2</sup>
Shore A hardness to ISO 868	approx. 80
Watertightness	slit pressure test requirements met
Tightness under negative-side water pressure	< 4 bar*
Tightness under positive-side water pressure	< 8 bar*
Compatibility with bitumen	requirements met
Storage/shelf life	minimum of 12 months

\*These are laboratory values and depend on the adhesive bonding and base.

## SUPPLY/ADDITIVES

Item no.	Product	Container	Contents
1108.1211.001	RASCOjoint TPE-Waterbar typ 150/1 mm	roll	20 m
1108.1212.001	RASCOjoint TPE-Waterbar typ 200/1 mm	roll	20 m
1108.1221.001	RASCOjoint TPE-Waterbar typ 200/2 mm	roll	20 m
1108.1222.001	RASCOjoint TPE-Waterbar typ 250/2 mm	roll	20 m
Other widths between 100 mm to 2000 mm are available upon request			
1409.1201.030	RASCObond EP-Adhesive Filler	set	30 kg

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### APPLICATION/PREPARATION

The base must be dry and free of dust, oil, grease and loose particles. In order to achieve maximum bonding, the concrete base should first be treated with a cup wheel. The RASCOjoint TPE-Waterbar is bonded to the cleaned, prepared base using RASCObond EP-Adhesive Filler. Waterbar joints and other connections at internal or external angles, pipe penetrations, etc. can be formed very easily by welding with a hot air gun and a pressure roller.

If the RASCOjoint TPE-Waterbar is used to waterproof movement joints, care must be taken to ensure that the waterbar remains free of adhesive filler in the joint area. It is advisable to fill the joint beforehand with a strong elastic compound.

If adhesion to the bonded RASCOjoint TPE-Waterbar is subsequently required, the RASCObond EP-Adhesive Filler must be sanded during the wet phase. The waterbar must be protected against mechanical damage, for example during backfilling, by taking suitable measures.

Further information on the application of the RASCOjoint TPE-Waterbar and RASCObond EP-Adhesive Filler can be found in the installation instructions.

### GENERAL GUIDELINES / SAFETY NOTICE

If the RASCOjoint TPE-Waterbar is dirty, it must be cleaned before use. Depending on the degree and type of soiling, the surface can also be sanded. When welding, the hot air dryer must be set to the correct temperature. This depends on the thickness of the waterbar and the temperature of the base. Ideally, the tape should be welded on a wooden base. This reduces the risk of too much heat dissipating through the cold base and the weld seam becoming weak.

If applications are required on the non-water (negative) side, the RASCOjoint TPE-Waterbar must be provided with a suitable mechanical support structure in line with the hydrostatic pressure. However, care must be taken to ensure that free movement of the joint is possible and not restricted. In freely accessible areas, such as underground car parks in shopping centres, the RASCOjoint TPE-Waterbar must always be protected against wilful damage (vandalism). If the waterbar is to be used in conjunction with chemicals, it is essential to contact RASCOR and clarify the chemical resistance for the particular case.

When applying the RASCOjoint TPE-Waterbar with RASCObond EP-Adhesive Filler, the appropriate personal protection measures must be observed. These can be found in the relevant safety data sheets.

