

MASTERSTOP SK

Self-adhesive bentonite swelling tape



MASTERSTOP SK for reliable waterproofing of construction joints as well as penetrations in concrete structures against water penetration. The swelling of the tape and the swelling pressure developed during the swelling process prevent water penetration.



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MASTERSTOP bentonite swelling tapes are seals that expand upon contact with water. They consist of finely ground, highly swellable clay mineral (sodium bentonite), embedded as a bonding agent in a matrix of unvulcanised rubber. MASTERSTOP SK is a self-adhesive bentonite swelling tape.

Technical specifications:

Article number:	010025
Chemical basis:	Sodium bentonite
Colour:	Yellow (Art. no.: 010025)
Surface:	Smooth
Consistency:	Malleable
Profile:	20 x 5 mm
Bulk density:	1.52 g/cm ³ (DIN EN ISO 1183-1)
Weight:	14.50 kg per carton

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Volume increase:	Up to 140%, in normal water (pH 7)
Thermal application range:	Approx. -30°C up to +90°C
Test certificate / approvals:	Test report tBU Greven No.: 1.3/11006/2.3-2001e
Pressure watertightness:	Up to max. 5 bar (50 m water column)
Suitable for zones with frequently varying water levels	Yes
Corresponds to:	Utility class A for the wear classes 1 and 2 in accordance with the WU guideline
Resistances:	E.g. Alkalis in general Urea Liquid manure and slurry Biogas Radon De-icing salt Substances obtained by means of fermentation Substances obtained by means of composting Waste water in water treatment plants Further resistances are available on request
Pack:	Size: 20 x 5 mm 90 m per carton 18 m rolls 30 cartons per pallet
Storage:	Store in undamaged and unopened original packaging in a dry place out of direct sunlight.
Disposal:	Can be disposed of at municipal waste landfill sites or waste incineration plants, taking into account the local waste disposal regulations.

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Application:

A typical application of MASTERSTOP SK is waterproofing of construction and connecting joints in concrete structures at ground water level. This involves all types of penetrations in the building structure in areas that require permanent waterproofing.

Examples include water-impermeable integration of pipe ducts in concrete buildings, waterproofing of reinforcement connections, waterproofing of ground drains, etc.

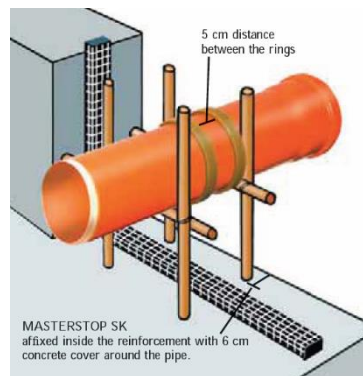
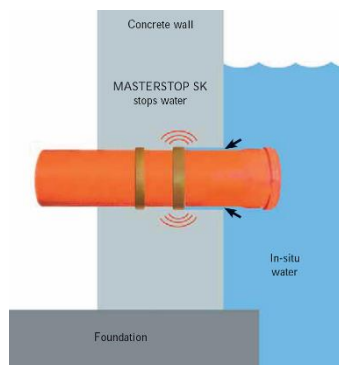
Integrated into concrete construction joints, these profiles expand upon contact with water and permanently seal the joint gap. Owing to the high swelling pressure of the bentonite, the swelling compound also penetrates damaged areas (gravel clusters, cracks) and seals these kind of leaks.

The swelling profiles are not only quick, easy and cost-efficient to install, but they also provide a reliable permanent seal - even against high water pressure! They provide peace of mind right from the outset by excluding potential defects and damage arising from conventional construction. Leaks due to water permeation and poorly sealed concrete in the joint area no longer occur.

Installation:

MASTERSTOP SK profiles are always installed inside the reinforcement. In doing so, sufficient concrete cover must be ensured.

The concrete cover should be at least 6 cm as otherwise the high swelling pressure of the bentonite may damage the concrete.




Installation-
video



Pull off silicone paper and affix 2 rings of MASTERSTOP SK around the pipe to be waterproofed.

The rings must be at least 5 cm apart.

Butt joint ends, no overlaps.

The surface of the pipes must be rigid.

MASTERSTOP SK adheres to metal, plastic, PVC and stone.

Secure MASTERSTOP SK with binding wire if necessary.

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MASTERSTOP bentonite swelling tape must only be processed when dry in dry weather conditions.

The geometry described must not be modified. Swelling tapes must not be installed if their rectangular geometry has been modified, or if they have become soiled or damaged!

Swelling tapes that have already expanded must not be installed!

Swelling tapes that have been installed and have expanded before placement of the concrete must be replaced!

Safety aspect:

MASTERSTOP SK does not contain any hazardous substances and poses no problems whatsoever in terms of handling and application. To the best of our knowledge, it contains no substances that are harmful to groundwater or could trigger health problems or allergic reactions in the installer.

Nonetheless, we recommend that an appropriate level of hygiene is observed during application and that hands are washed as a basic rule before meals.

In the event of a fire, low temperature carbonisation gases that are harmful to health and combustible may be produced by the bonding agent contained in MASTERSTOP. However, the material is self-extinguishing and only burns if a sufficiently strong flame is continuously applied.

Basic principles:

All dimensions and information in this data sheet reflect the results of the laboratory tests that have been carried out.

Deviations from the values determined by us under laboratory conditions are possible due to environmental and operating conditions beyond our control.

The data in this data sheet only applies for the product delivered by us.

The product data corresponds only to the specifications in Germany. Possible country-specific deviations are not taken into account here.

Disclaimer:

The technical information reflects our current knowledge of MASTERSTOP SK. It is intended only as information for users. As we do not know the envisaged applications and processing conditions, it is the responsibility of the user to carefully check that the product is suitable for the intended purposes. Due to the different components at the installation site and the working conditions in place there, MASTERTEC cannot provide any guarantee whatsoever for the result of the work. Claims arising from any legal relationship can only be recognised in the event of wilful intent or gross negligence, irrespective of the statements made here or advice provided verbally. In this case the user must prove that he has provided MASTERTEC in writing with all the information required to correctly assess the installation situation in good time. Subject to necessary product specifications or further developments. By providing this information MASTERTEC does not intend to infringe third-party rights. The latest data sheet in each case applies. Our corresponding terms and conditions of sale and delivery apply.

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