



SWELLING TAPES

JOINT SHEET METALS

INJECTION HOSES CONSTRUCTION CHEMISTRY

PRESSURE WATER-TIGHT SERVICE DUCTS

LIGHTNING PROTECTION

FORMWORK ACCESSORIES

PRODUCT RANGE 2022/2023

Product safety

Our products are certified by testing institutes for the various areas of application.









IAF - Radioökologie GmbH

Labor für Radionuklidanalytik Radiologische Gutachten Consulting



Our pictograms

Testing of impermeability to pressurised water



Testing of fire resistance class according to DIN EN 13501-2 and construction materials class according to DIN EN 13501-1 and DIN 4102-1



Testing of resistance to various media



Standard sound level differential testing according to DIN EN ISO 10140-2



Approved by the building authorities for storage and filling facilities of slurry/liquid manure/silage effluent and biogas facilities



Testing of impermeability to the naturallyoccurring radioactive inert gas Radon



Testing of the impact sound reduction based on DIN EN ISO 140-8



Testing of the maximum static load



Testing of the lightning current carrying capacity class according to DIN EN 62561-1



Compliance with the European requirements for construction technology



Compliance with a European harmonised standard



You can find the technical information about the relevant product here.



INJECTION HOSES CONSTRUCTION CHEMISTRY









Mastertec EasySeal 1K @



With high-pressure test for external strip-shaped waterproofing of walls made of prefabricated elements

- International high-pressure test up to 80 m water column with a crack width of up to 3 mm
- Tested in accordance with the current WU directive
- General Building Supervisory Test Certificate

Art. no.	Description	PU	Weight	
050100	Mastertec EasySeal 1K Single-component high-pressure structural waterproofing 14 kg bucket	14 kg bucket (2 x 7 kg bag) 30 buckets per pallet	14.90 kg per bucket	MASTENTEC EASY/SOUTH
050110	Mastertec EasySeal 1K non-woven Roll length 100 m Roll width 0.3 m	1 pc.	3.80 kg per roll	
050120	Mastertec EasySeal 1K special roller Width 18 cm Professional quality	1 pc.	0.10 kg per pc.	
050130	Mastertec EasySeal 1K roller frame Professional quality	1 pc.	0.20 kg per pc.	
050140	Mastertec EasySeal 1K roller grid Size: 24 x 22 cm Professional quality	1 pc.	0.05 kg per pc.	
050150	Mastertec EasySeal 1K corner roller Professional quality	1 pc.	0.21 kg per pc.	
050160	Mastertec EasySeal 1K professional brush Width 50 mm Professional quality	1 pc.	0.12 kg per pc.	
050170	Mastertec EasySeal 1K pressure roller Width 15 cm Professional quality	1 pc.	0.19 kg per pc.	

MASTERTUBE (Injection hose systems)

Injection hoses Technical details pages 91 – 93

Art. no.	Description	PU	Weight
030400	MASTERTUBE "YELLOW" round, size: 6/12 mm PVC injection hose	1 roll of 100 m	11.20 kg per roll
030050	MASTERTUBE injection hose round, size: 5/10 mm, red/yellow with woven jacket	1 roll of 100 m	10.00 kg per roll



Art. no. 030400

- Very high-pressure water test
- For injection with polyurethane resin
- For multiple injections with acrylate and cement suspension
- Hose sections up to 15 m with polyurethane resin



Art. no. 030050

- Very high-pressure water test
- For injection with polyurethane resin
- For multiple injection with acrylate
- Hose sections up to 15 m with polyurethane resin

MASTERTUBE installation set

Art. no.	Description	PU	Weight
030052	MASTERTUBE installation set 40 m MASTERTUBE injection hose 20 fastening packers 200 plastic fastening clips type A 100 metal clips with nails 10 hose connectors 1 roll of filament tape	1 carton = 1 set	8.40 kg per set





Injection hose and accessories

Art. no.	Description	PU	Secondary packaging	Weight	
030060	Fastening packer including nipple, for fixing the injection hose to the formwork Colour of packer: black, 10 red plugs, 10 white plugs, for resin injection	1 bag of 20 pcs.	25 bags per carton	0.50 kg per bag	
030362	Plastic foam for fastening packer Diameter 35 mm, thickness 20 mm, self-adhesive, 10 pcs. white, 10 pcs. anthracite	1 bag of 20 pcs.		0.05 kg per bag	
030065	Fixing spider for fixing the fastening packer to the reinforcement	1 pc.		0.11 kg per pc.	
030075	Plastic fastening clip type A for pressing into the fresh concrete or into Ø 8 mm bore holes, distance between clips: 15 cm	1 bag of 100 pcs.	25 bags per sack	0.29 kg per bag	*
030070	Plastic fastening clip type B for pressing into the fresh concrete or into Ø 8 mm bore holes, distance between clips: 15 cm	1 bag of 100 pcs.	25 bags per sack	0.29 kg per bag	T
030080	Metal clip with pre-fitted nail for all common nailguns, for firing and nailing, distance between clips: 15 cm	1 carton of 100 pcs.		1.80 kg per carton	
030081	Metal clip without nail	1 carton of 100 pcs.		1.40 kg per carton	• =
030083	Nail plug 5 x 40 mm borehole Ø 5 mm	1 carton of 200 pcs.		0.60 kg per carton	800
030072	Fastening grids for MASTERTUBE 25 m per carton (25 grids of 1 m)	1 carton		1.80 kg per carton	
030082	MASTERTUBE joint sheet metal clamps Technical details page 94	1 bag of 100 pcs.		0.60 kg per bag	J

Injection hose and accessories

Art. no.	Description	PU	Weight	
030100	Hose connector for hose extension and connection of oddments Technical details page 94	1 bag of 10 pcs.	Weight 0.04 kg per bag	A STATE OF THE PARTY OF THE PAR
030102 030104	Ventilation hose Fabric hose blue-transparent round, size: 5/11 mm red-transparent round, size 5/11 mm	1 roll of 50 m	4.85 kg 4.85 kg per roll	
030112	Injection end pieces including sealing plug and hose connector, length 50 cm blue-transparent round 5/11 mm red-transparent round 5/11 mm	1 bag of 10 pcs. 1 bag of 10 pcs.	0.50 kg per bag 0.50 kg per bag	
030096	Sealing plugs for injection end pieces and ventilation hose	1 bag of 20 pcs.	0.006 kg per bag	
030101	Hose bushing for gluing with superglue	1 bag of 20 pcs.	0.02 kg per bag	
030125	Superglue bottle 10 ml	1 bag of 10 pcs.	0.21 kg per bag	
030350	Storage box for ventilation hose Technical details page 94	1 bag of 10 pcs.	0.55 kg per bag	
030120	Shrink-on sleeve, length 10 cm for securing connection points	1 bag of 20 pcs.	0.04 kg per bag	
030140	Hand-lever press 500 ccm for resin injection	1 pc.	1.00 kg per pc.	
030150	Reinforced hose L 300 mm incl. gripping head	1 pc.	0.09 kg per pc.	

Injection hose and accessories

Art. no.	Description	PU	Weight	
030160	Gripping head	1 pc.	0.03 kg per pc.	(10
NEW 030161	Quick coupling	1 pc.	0.10 kg	
030165	Manometer 400 bar with T piece incl. connecting tube and adapter	1 pc.	0.26 kg per pc.	
030155	Replacement seal for hand-lever press	1 pc.	0.01 kg	0
030130	Injection packer incl. nipple for injection via ventilation hose or injection hose	1 bag of 10 pcs.	0.16 kg per bag	-8
030135	Steel hose packer incl. nipple for injection via ventilation hose or injection hose	1 bag of 10 pcs.	0.19 kg per bag	Second Se
030170	Measuring beaker 3 I	1 pc.	0.26 kg per pc.	
030090	Filament tape roll width: 25 mm, roll length: 50 m to safeguard the hose ends	1 carton of 36 rolls	0.17 kg per roll	
030355	Connection thread for fastening packer Length: 35 mm The connection thread is screwed into the fastening packer to facilitate mineral injection.	1 bag of 10 pcs.	0.08 kg per bag	College Millians
030063	Nipple, extra	1 bag of 100 pcs.	0.46 kg per bag	

PROTECT resin system



Injection resins, adhesives and cleaning agents for injection of injection hoses and injection packers and pressure water-tight bonding of fibre cement plugs.

PROTECT PUR resin

Polyurethane resin for hose and crack injection

CE marking; Low viscosity and provides permanently elastic seal; Processing time of approx. 40 min. at +20°C;



Art. no.	Description	PU	Secondary packaging	Weight
040015	PROTECT PUR resin	1 I combination can: (0.5 I component A + 0.5 I component B)	6 cans per carton	1.30 kg per can
040018	PROTECT PUR resin	10 I container: (5 I component A + 5 I component B)		11.50 kg per container

Application

All resins must be very well homogenised when stirred in. Example - PROTECT PUR resin:

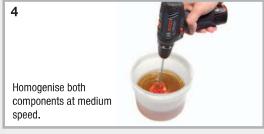
Installation instructions, technical data and data sheets can be found on our website: www.Mastertec.eu

Resins and adhesives cannot be shipped at temperatures below +5°C.









PROTECT foam resin

Single-component, fast-foaming polyurethane-based foam resin

Immediately stops the inflow of water; rapid expansion with high increase in volume; Reaction time upon contact with water approx. 15 seconds;



Art. no.	Description	PU	Secondary packaging	Weight
040050	PROTECT foam resin	1 I can	6 cans per carton	1.25 kg per can

PROTECT EP resin

Epoxy resin for non-positive seals

Non-positive filling of cracks and joints; Injection into injection hoses; Suitable for dry and damp substrates; Processing time approx. 45 min. at +20°C;



Art. no.	Description	PU	Secondary packaging	Weight
040020	PROTECT EP resin	1 I combination can: (800 ml component A + 200 ml component B)	6 cans per carton	1.30 kg per can

PROTECT Clean

Cleaning agent

For cleaning of polyurethane and epoxy resin prior to curing



Art. no.	Description	PU	Secondary packaging	Weight
040045	PROTECT Clean	1 can 1 I	12 cans per carton	1.10 kg per can
040040	PROTECT Clean	1 canister 10 I		10.00 kg per canister

Universal concrete adhesives

PROTECT Easy 1K ()





Single-component polymer-based concrete adhesive

For water-impermeable bonding of fibre cement distance tubes. Processing takes approx. 20 min. at +23°C;

Resistant to all normal uncontaminated groundwater.



Tested for impermeability up to 50 m water column. Suitable for all fibre cement distance tubes.

Art. no.	Description	PU	Secondary packaging	Weight
040030	PROTECT Easy 1K in resealable aluminium bag	1 set: (3 x 800g aluminium bag + 1 x processing cup + 1 x fastening clip)	10 sets / carton 18 cartons per pallet	2.54 kg per set

PROTECT BK 2K





Solvent-free epoxy-based concrete adhesive

For water-impermeable bonding and non-positive connection of concrete components. Processing time approx. 60 min. at +20°C

Resistances of PROTECT BK once cured:

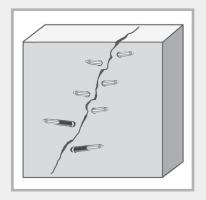
Diluted acids, mineral oil, lubricants and fuels, saltwater, wastewater, large number of alkalis and solvents, test of suitability for contact with drinking water.

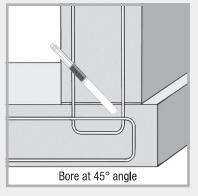


Tested for impermeability up to 70 m water column. Suitable for all fibre cement distance tubes.

Art. no.	Description	PU	Secondary packaging	Weight
040100	PROTECT BK For pressure water-tight sealing of fibre cement distance tubes.	1 kg combination can: (0.5 kg component A+ 0.5 kg component B)	10 cans per carton 28 cartons per pallet	1.20 kg per can

Injection packers / surface packers

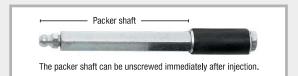






Art. no.	Screw injection packer including nipple / size	Drill bit Ø	PU	Weight
030185	10/70 mm	10 mm	1 carton of 100 pcs.	1.90 kg/ctn.
030187	10/100 mm	10 mm	1 carton of 100 pcs.	2.70 kg/ctn.
030183	13/80 mm	14 mm	1 carton of 100 pcs.	2.90 kg/ctn.
030180	13/100 mm	14 mm	1 carton of 100 pcs.	4.60 kg/ctn.
030181	13/170 mm	14 mm	1 carton of 100 pcs.	7.00 kg/ctn.
030182	13/250 mm	14 mm	1 carton of 100 pcs.	10.50 kg/ctn.

One day site packer



Art. no.	One day site packer including nipple / size	Drill bit Ø	PU	Weight
030188	10/110 mm	10 mm	1 carton of 100 pcs.	3.80 kg/ctn.
030189	13/115 mm	14 mm	1 carton of 100 pcs.	5.20 kg/ctn.

Surface packer

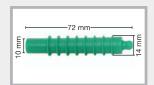






Art. no.	Description	PU	Weight
030200	Plastic surface packers, washer diameter 5 cm	1 bag of 100 pcs.	1.75 kg per bag

Plastic injector







Art. no.	Description	PU	Weight
030210	Plastic injector with non-return ball	1 bag of 200 pcs.	0.09 kg per bag
030215	Impact stud	1 pc.	0.07 kg/pc.

LIDOL concrete release agent

Art. no.	Description		PU	Secondary pack- aging	Weight	
040310	LIDOL MULTI	Universal release agent for all	1 canister 20 I	Pallet: 30 canisters	18.5 kg per canister	
040320	LIDOL MULTI	common types of formwork	1 drum 200 l with integrated faucet	Pallet: 2 drums	191.0 kg per drum	Drum
040330	LIDOL BIO	Universal release agent for all common types of formwork	1 canister 20 I	Pallet: 30 canisters	18.5 kg per canister	
040340	LIDOL BIO	Rapidly biodegradable Environmental label "Blue Angel"	1 drum 200 I with integrated faucet	Pallet: 2 drums	191.0 kg per drum	20 I canister
040350	TECCO 10 I com with fine jet nozz	npression sprayer le	1 pc.		6.2 kg per pc.	TEEGO TO L

LIDOL concrete release agents are environmentally sound and biodegradable or highly biodegradable formwork release agents. Our range includes 200 litre drums as well as 20 litre canisters.

LIDOL concrete release agents are universally applicable release agents which can be used for all common types of formwork in building construction.

Formwork type	Use of LIDOL
Betoplan	YES
Magnoplan	YES
NOE-Form	YES
Struktoplan	YES
Plastic facing formwork	YES
Timber formwork, planed sucking	YES
Timber formwork, unplaned sucking	YES



LIDOL MULTI

LIDOL MULTI is an

environmentally sound universal release agent

The application of LIDOL MULTI to the formwork prevents the formwork from coming into contact with the concrete.

The formwork can therefore be easily stripped.

Applications:

- For all common formwork types
- With fair-faced concrete
- When coating concrete surfaces with plaster, stucco or similar material, e.g. wallpaper, paint, ceramic
- Does not contain corrosion protection additives, corrosion protection is provided by mineral oils



Environmental aspects:

- Water hazard class 1 = low hazard to water
- Not subject to mandatory labelling
- Flashpoint > +120°C
- Neutral odour

Application:

LIDOL MULTI is not sensitive to frost and can be used without problems in all weather conditions. The release agent can be applied by spraying, brushing or rolling.

The most economical application method is using the TECCO compression sprayer.

Formwork type	Yield	
	with 1 litre	
	LIDOL MULTI	
formwork panels	approx. 80 m ²	
planed timber surface	approx. 40 m ²	
unplaned timber		
surface	approx. 30 m ²	



LIDOL BIO

LIDOL BIO is an environmentally sound and highly biodegradable universal release agent



Special award:

Due to its high environmental compatibility, LIDOL BIO was awarded the environmental label "Blue Angel" by RAL Deutsches Institut für Gütesicherung und Kennzeichnung e.V (German Institute for Quality Assurance and Labelling).

Applications:

- In water protection areas and zones with environmental stipulations
- For all common formwork types
- With fair-faced concrete
- When coating concrete surfaces with plaster, stucco or similar material, e.g. wallpaper, paint, ceramic

Environmental aspects:

- Water hazard class 1 = low hazard to water, highly biodegradable
- Not subject to mandatory labelling
- Flashpoint > +120°C
- Neutral odour



Application:

LIDOL BIO is not sensitive to frost and can be used without problems in all weather conditions. The release agent can be applied by spraying, brushing or rolling. The most economical application method is using the TECCO compression sprayer.

	riela with
Formwork type	1 litre LIDOL BIO
formwork panels	approx. 75 m ²
planed timber surface	approx. 35 m ²
unplaned timber surface	approx. 25 m ²



TECCO 10 I

Compression sprayer with fine filter for economical application of concrete release agents.

مادانین اماما

Structure:

- Steel container with polyester coating
- 2.5 m spiral hose with safety lock
- Flat jet nozzle with fine filter
- Sight glass for level monitoring
- Oil-resistant seals
- Integrated spare parts compartment with spare seals and O-rings





Mastertec EasySeal 1K

Single-component, solvent-free, water-free and bitumen-free structural waterproofing

Product description

Mastertec EasySeal 1K is one of the most modern and effective external waterproofing products for watertight structures. Modified polymers form the basis for the product. They have an extremely high adhesive force on multiple substrates and are thus the prerequisite for a high-pressure seal. Application is simple, quick and cost-efficient.



Product characteristics

- Modified single-component polymer
- Colour grey
- Solvent-free, water-free and bitumen-free
- Neutral odour
- Very low emissions
- Water hazard class 1 low hazard to water
- Storable for 12 months frost-free
- Protect against frost during transportation

Technical data

Testing: High-pressure 80 m water

column

Certificate: General Building Supervi-

sory Test Certificate

Crack width: Up to 3 mm

Application

temperature: 0°C to +35°C

Component

Min. +2°C temperature:

Thermal resistance: Up to +70°C

Rain-proof: Immediately at +20°C

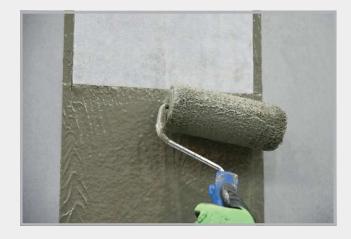
At lower temperatures after approximately 3 hours

Completely dry: After approximately 24 hours at +20°C and 50% relative air humidity

The setting time may be longer at lower temperatures and lower air humidity.

Approximately 1.20 kg/m with 2 coats and a seal of approximately 32 cm in **Usage:**

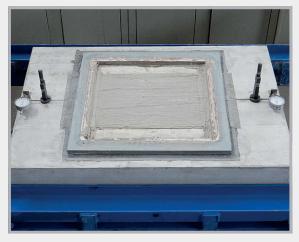
width; layer thickness: approximately 1.2 mm depending on application



Tests and resistance



Here you see the specimen after the initial test with a joint width of 1 mm. The joint is widened to 3 mm by driving in wedges.



Specimen on 3 mm widened joint. After widening the joint, the pressure vessel was fitted and pressurised with 8 bar.

- Test pressure 80 m water column
- Crack width 3 mm
- Good UV resistance
- Very good resistance to alkali
- Bitumen-compatible: Can be applied to bitumen or
- Resistant to common liquids which are aggressive to
- Weatherproof
- Further processing with insulation is possible (fastened with insulation adhesive)
- Prior to filling, protect the external waterproofing against mechanical damage.

plastic-modified thick coating. The carrying capacity of the substrate must be observed. concrete

A base plaster can be applied to Mastertec EasySeal 1K under the following conditions:

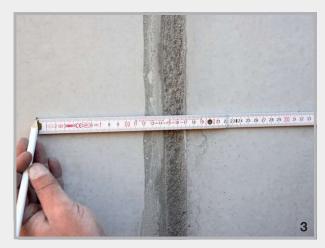
- Transition zone: 15-20 cm above and below the ground edge
- A thin coating of Mastertec EasySeal1K must be applied to this 30-40 cm area, and the full surface sprinkled with quartz sand.
- Tile adhesive can be used as the keying surface/plaster base, and is applied with a toothed spatula with 6-8 mm teeth.
- To reduce cracking in the transition zone, the base plaster must be reinforced with a suitable fabric.

Preparing the joint and the non-woven





The butt joints on the components are filled and the surface is cleaned to remove any loose parts before coating.





The joint is coated to a width of approximately 32 cm. The non-woven can be cut to the desired length.

Application of Mastertec EasySeal 1K

- Immediately ready for processing on a clean substrate from the bucket without mixing
- Suitable for brushing or rolling on
- Also adheres to slightly damp substrate
- Structure:
 - a) Initial application with Mastertec EasySeal 1K
 - b) Working in of the Mastertec EasySeal 1K non-woven
 - c) Covering layer of Mastertec EasySeal 1K after approx. 2-3 hours
- The construction site can usually be completed in a single day. No second visit required.



Coating work



Open the bags and pour the coating into the bucket.



Apply the first coating layer. Layer thickness: approximately 1.2 mm Usage: approximately 0.6 kg per metre/joint



There is a brush and corner roller for the fillet and other areas.



Align and gently press on the non-woven.



Roll the non-woven into the coating completely with the pressure roller.

This working step makes it possible to apply the second layer after approximately 2-3 hours, depending on the temperature and air humidity.

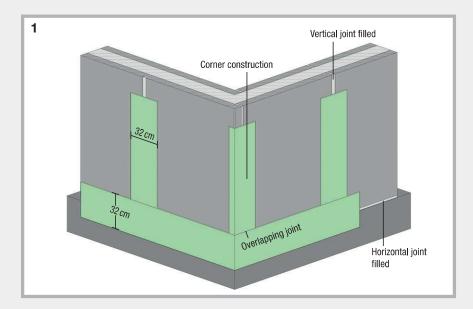


Apply the second coating layer. Layer thickness: approximately 1.2 mm Usage: approximately 0.6 kg per metre/joint The edge area of the non-woven must be completely covered.

Installation of Mastertec EasySeal 1K

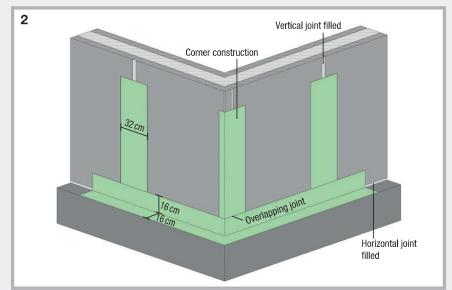
Mastertec EasySeal 1K Joint 1

Foundation/wall connection without fillet



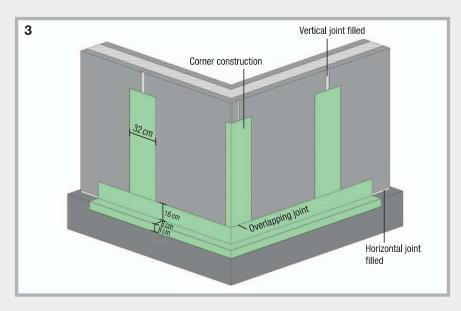
Mastertec EasySeal 1K Joint 2

Foundation/wall connection with wide fillet



Mastertec EasySeal 1K Joint 3

Foundation/wall connection with narrow fillet



Every overlapping joint must be implemented with an overlap length of the non-woven webs of at least 10 cm. If the joints cross (T or cross joint), the vertical joints first have to be sealed off. The seal on the horizontal joints then overlays the overlap area of the vertical joint.

At the construction site



Sealed horizontal and vertical joints





Sealed horizontal joint

MASTERTUBE (2) Injection hose systems

The MASTERTUBE "YELLOW" and MASTERTUBE injection hoses make construction joints watertight.

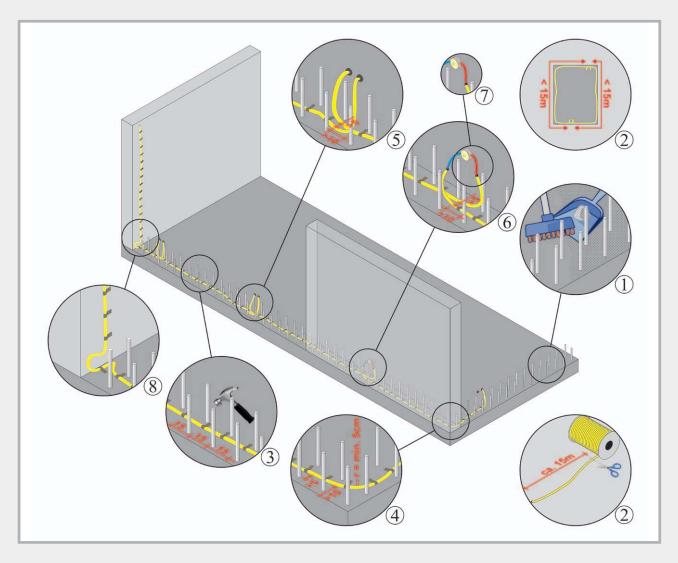
The form and structure of the hose profiles ensure a particularly secure and even filling of shrinkage gaps and damaged spots.





	MASTERTUBE "YELLOW"	MASTERTUBE Injection hose
Very high water pressure tests	50 m water column	50 m water column
For injection with polyurethane resin	tested	tested
For multiple injection with acrylate	tested	tested
For multiple injection with cement suspension	tested	-
Additional 15 m circulation with polyurethane resin	tested	tested
Even discharge of injection material	tested	tested
No sintering during concreting	tested	tested
Suitable for zones with frequently varying water levels	tested	tested
All-weather installation	-10°C to + 60°C	-10°C to + 60°C
Extremely straightforward installation	Used on building sites for more than 10 years	Used on building sites for more than 20 years
Accessories	Comprehensive system	Comprehensive system

Installation and injection of MASTERTUBE "YELLOW" and MASTERTUBE injection hose



- 1. Clean the surface on which the injection hose is routed to remove loose dirt. Professionally smooth out excessive unevenness, e.g. cavities, ensuring friction-locked adhesion.
- 2. Plan injection sections, maximum length incl. injection end pieces ≤ 15 m, shorten hose using a suitable cutting tool. When using the MASTERTUBE injection hose, mask the hose to be shortened with filament tape to prevent the braided fabric from coming loose. The hose is then cut at the centre of the filament tape.
- 3. It can then be fastened with clips inserted into the fresh concrete. The hose is clipped on underneath once the concrete has cured. It can be fastened to a solid surface using metal clips or fastening grids which are nailed to it. The distance between the fastening clips or metal clips should not be more than 15 cm. This ensures the hose is always in contact with the construction joint. The hose must not float or be clear of the supporting surface at any point.
- 4. The distance from the surrounding reinforcement rods should be at least 5 cm. Ensure a minimum distance of 10 cm from the edge on all sides. The minimum bending radius is 5 cm.
- 5. Successive injection hose sections must overlap by at least 10 cm to ensure continuous injection of the joint. Injection hoses running parallel to one another must be at least 5 cm apart. Otherwise during injection of one hose, the other could also be filled and subsequently may no longer be injectable.

- 6. The injection hose can either be directly connected to our fastening packers which are mounted on the formwork or routed via injection end pieces to a storage box. The connection should be as close as possible to a 90° angle to the wall. The storage boxes or fastening packers must be attached so they can subsequently be accessed without difficulty at any time.
- 7. A hose connector should be used as the transition between injection hose and injection end piece. This hose connector must be cast into the concrete in order to be able to inject the injection hose correctly later on.
- 8. At the foundation/wall transition, the injection hose must be routed right into the corner of the joint and routed upwards via a loop.
- 9. If injection hoses cross over and are a distance of ≤ 5 cm apart, adhesive tape must be wound round one of the injection hoses in the area of the intersection for a distance of 8-10 cm. This prevents accidental injection of the other injection hose.
- 10. Once the concrete has cured, 28 days after concreting at the earliest, the joints can be injected via the fastening packer or injection end pieces in the storage box.
- 11. The DBV code of practise: Injection hose systems and swellable linings for construction joints (January 2010) must be observed.

Two systems with 100% reliability



Roll length 100 m





Roll length 100 m



Hose connector

for hose extension and connection of oddments



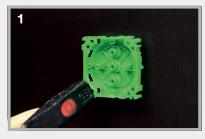




Storage box for ventilation hose

for the safekeeping of the injection end pieces until injection is carried out

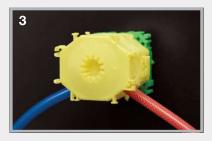




Nail on the formwork support



Clip on the storage box with inlets open



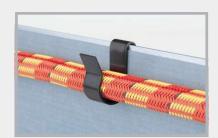
Introduce the ventilation hoses on the left and right and then the box is ready for concreting.

MASTERTUBE joint sheet metal clamp

for fastening the injection hoses to joint sheet metals







The MASTERTUBE joint sheet metal clamp can be used to fix MASTERTUBE "YELLOW" or MASTERTUBE injection hoses to the outer edge of joint sheet metals.

At least 7 pcs. per meter are required. The installation distance must not exceed 15 cm.





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