

Injection solutions

Product catalogue





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Putting your safety first

The construction, tunneling and mining industry continues to demand even higher levels of safety and productivity. In order to meet these requirements, we work continuously to develop safer products, and to produce comprehensive manuals on the safe and effective use of our products.

It's all about everyone's health

Helping you to ensure a safer workplace and healthier workforce is of the utmost importance to us. The wellbeing of any person coming into contact with our equipment is paramount. Therefore, we strive to identify and assess potential risk factors that could threaten the health of you and your employees. All products in this catalogue are designed to meet safety requirements.

Be aware of all safety procedures

We ask that you start by obeying all instructions given. Never work under an unsupported roof or close to potential pinch point locations. Beware of the potential hazards of a loose roof and ribs. Beware of possible coal burst. The use of temporary roof support is recommended. Scale down roof and ribs prior to bolting. It is important to bolt early in the mining process – as soon as it is safely and practically possible. Safe work procedures should incorporate inspection – before the machine operates, and also through regular monitoring based upon mining conditions, safety and hazard management systems. Workers should be provided with safety information, instruction and training on transportation, installation, operational care and disposal of drilling tools.

Dress right from head to toe

You must wear appropriate personal protective equipment (PPE) at all times. This is what we strongly recommend to help avoid injury:

- Safety helmet
- Hearing protection
- Safety glasses
- Protective, high visibility clothing
- Respiratory protection
- Safety boots
- Safety gloves
- Any site-specific PPE as required

Make a risk analysis before you start

Pay attention to safety when planning all of your work. Before you start, always take the time to go through all operations. Identify any potential risks and take appropriate measures to avoid them. If necessary, seek expert advice on how to help minimize risks. Finally, make sure that you have the right resources to perform all tasks in the safest manner possible.



About us

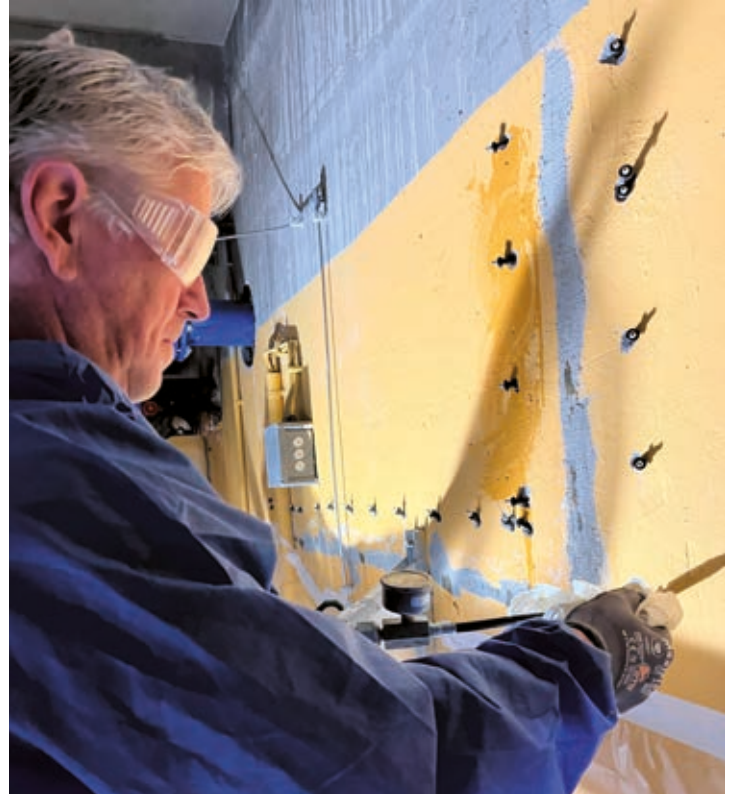
Sandvik Ground Support is, among other things, one of the world's leading providers of products, systems, and solutions for all areas of underground and surface construction with more than 30 years' experience and knowledge in the production of injection materials for different industries.

We are represented in more than 70 countries with over 2,500 employees, including engineers and technical specialists with many years of experience.

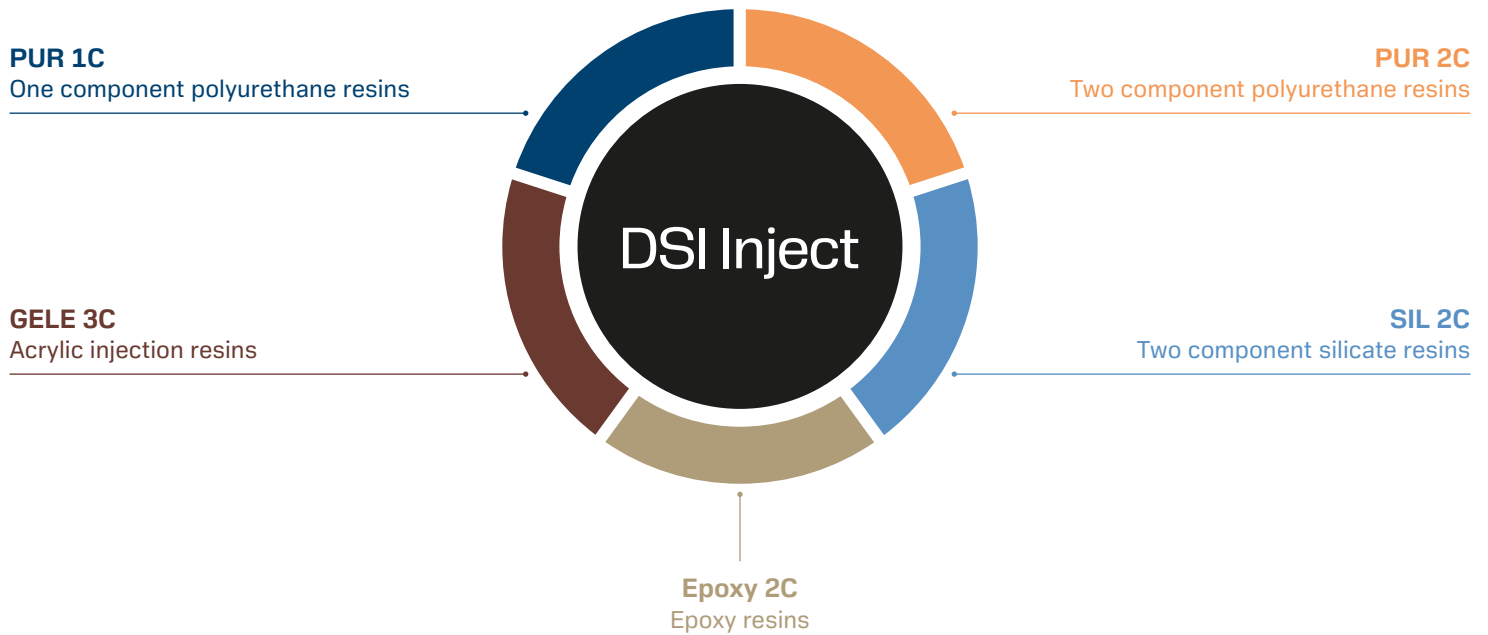
Sandvik Ground Support offers internationally renowned brands for mining, tunneling, civil engineering and rehabilitation. Thanks to our global production locations, we ensure the sustainable and reliable fulfillment of all our customers' requirements.

Comprehensive internal quality controls, and international logistical capacities ensure products of the highest quality.

With detailed recommendations and comprehensive advice we offer our customers customised, project-specific, durable and environmentally friendly system solutions. In addition to the extensive product portfolio, which ranges from anchor systems and injection resins for sealing and repairing structures and components to synthetic resin cartridges for mining and tunneling, we produce and develop ground support products for the entire underground construction sector. In particular, the DSI Inject synthetic resin systems developed by Sandvik Ground Support cover a wide range of applications for the entire construction industry.



Injection material



PUR 1C: One component polyurethane resins are often used for smaller sealing work.

PUR 2C: Two component polyurethane resins, the most versatile injection resin system, are mainly used for sealing and stabilizing all types of structures.

SIL 2C: Two component silicate resins, also known as organomineral resins, are mainly used for rock consolidation, cavity filling, and for bonding rock anchors.

Epoxy 2C: Epoxy resin is used for the structural bonding of cracked concrete building parts.

GELE 3C: Acrylic injection resins are used for surface sealing against water in the ground or walls, to consolidate soils and joint injections.

Whether 1C or 2C synthetic resin systems based on polyurethanes or 2C silicate resins, Sandvik Ground Support offers comprehensive solutions.

All DSI Inject systems are processed using one or two component high-pressure injection pumps individually adapted to the respective application. Appropriately used, DSI injection systems meet all ecological and sustainability requirements and can be used without hesitations.

Technical parameters

2C

Components



Viscosity



Reaction start –
processing time



Foaming factor



Compressive strength



Flexural strength



Elasticity



Ready to use –
katalyst inside



Adjustable
reaction time



Hydrophob



Hydrophil



Additives available

Note: the information on the technical parameters refers to a temperature of 20 °C.
The properties of the injection material may vary due to various influencing factors.
Please contact us if you have any questions.

Areas of application



Crack injection sealing



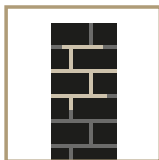
Crack injection solid structure



Backfilling



Curtain injection



Masonry injection



Horizontal barrier



Joint injection



Water stop



Injection of grouting hoses



Soil stabilisation



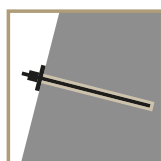
Stabilisation of masonry



Rock stabilisation



Lifting injection



Anchor injection



Hydraulic failure






Subsoil consolidation



Sealing building pits

Application overview

Type	Product	Short description			
			Crack injection sealing	Crack injection solid structure	Backfilling
One component resins					
PUR 1C	DSI Inject PUR 1C-50-II	Adjustable setting time, cures even without water presence	✓	–	–
	DSI Inject PUR 1C-100-II	Water reactive medium setting resin, applicable in a wide temperature range	✓	–	–
	DSI Inject PUR 1C-100-II-R	Water reactive medium setting resin, ready for use without mixing	✓	–	–
	DSI Inject PUR 1C-400	Water reactive high viscos, elastic foam resin with medium setting	✓	–	–
	DSI Inject PUR 1C-400-II	Water reactive, medium viscos, elastic foam resin with short setting	✓	–	–
	DSI Inject PUR 1C-400-II-R	Water reactive, medium viscos, elastic foam resin with short setting ready for use without mixing	✓	–	–
Two component resins					
PUR 2C	DSI Inject PUR W	Fast setting resin with high strength	–	–	–
	DSI Inject PUR WF	Very fast setting resin with high strength	–	–	–
	DSI Inject PUR WT	Fast setting, thixotropic resin with high strength	–	–	✓
	DSI Inject PUR LV	Very slow setting resin with very low viscosity	–	–	–
	DSI Inject PUR HA	Medium setting resin with good mechanical properties	–	–	–
	DSI Inject PUR HS	Very fast setting resin with enhanced mechanical properties	–	–	–
	DSI Inject PUR S	Very slow setting resin with low viscosity and excellent mechanical properties	–	–	–
	DSI Inject PUR HF	Fast setting resin with adjusted foaming behaviour FF 2.0 up to 15.0	–	–	–
	DSI Inject PUR 203-E	Water reactive, elastic resin with extended setting time	✓	–	–
	DSI Inject PUR 206-E	Water reactive, elastic resin with long setting	✓	–	–
	DSI Inject PUR 209-E	Water reactive, elastic resin with very long setting time	✓	–	–
SIL 2C	DSI Mineral Bond LV	Medium fast setting resin with low viscosity and good corrosion protection	–	–	–
	DSI Mineral Bond HS	Low viscosity resin, adjustable reaction time and very high strength	–	–	–
	DSI Mineral Bond S	Slow setting resin with low viscosity and good corrosion protection	–	–	–
	DSI Mineral Fill	High foaming resin with very low viscosity, easy to cut and drill through	–	–	✓
	DSI Mineral Bolt MI	High thixotropic behaviour for overhead applications for mechanical installation	–	–	–
	DSI Mineral Bolt M, S, US	Medium, slower or very slow setting version of the DSI Mineral Bolt MI system	–	–	–
EP 2C	DSI Inject Epoxy 2C-305-R	Slow reacting, rigid resin with very good mechanical and chemical properties	–	✓	–
	DSI Inject Epoxy 2C-305-R-F	Rigid resin with very good mechanical and chemical properties	–	✓	–
Multi component acrylic resins					
GELE 3C	DSI Inject GELE E	Rubber-like 3C acrylic resin, suitable for soil stabilization, water sealing and as horizontal barrier	–	–	–
	DSI Inject GELE V	Rubber-like 3C acrylic resin, suitable for joint injection and soil stabilization	–	–	–
	DSI Inject GELE F	Rubber-like 4C fast reacting acrylic resin suitable for water stopping and joint injection	✓	–	–
	DSI Inject GELE SR-50	Rigid, medium strength 3C system, extremely low viscosity for fine sand injection	–	–	–
	DSI Inject GELE SR-80	Rigid, high strength 4C system, extremely low viscosity for fine sand injection	–	–	–

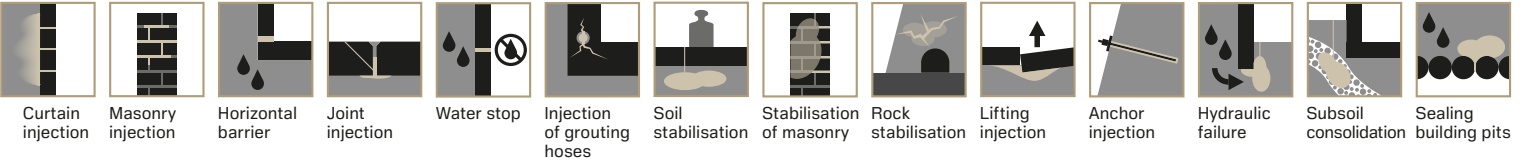
The products listed in the table are only an overview of our product portfolio. Not all of the products shown can be found on the following pages. For further information on a product from the table, please contact us!

Abbreviations

W Water stopping
LV Low viscosity

R Rigid
SR Semi-rigid

F Fast
S Slow
US Ultra slow



Curtain injection	Masonry injection	Horizontal barrier	Joint injection	Water stop	Injection of grouting hoses	Soil stabilisation	Stabilisation of masonry	Rock stabilisation	Lifting injection	Anchor injection	Hydraulic failure	Subsoil consolidation	Sealing building pits
-	✓	-	-	✓	-	✓	-	-	-	-	-	✓	-
-	-	-	-	✓	-	✓	-	-	-	-	✓	✓	✓
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M Medium
E Elastic

T Thixotropic
HA High adhesion

HF Controllable foaming factor
HS High strength

I PUR 1C – one component

DSI Inject PUR 1C-50-II

Areas of application



Description

DSI Inject PUR 1C-50-II is a one component polyurethane resin, that also reacts without water/moisture. The slightly foaming polyurethane resin has a very low initial viscosity. The reaction time can be adapted to the conditions using the catalysers (DSI Inject 1C FAST or SLOW). It is suitable for consolidating subsoil, fine and medium-fine sands. Further it is also suitable for stage injection, injection with manchette tubes and the sealing of anchors in water-bearing layers it can be used as well.

Advantages

- Adjustable setting time with the catalyst DSI Inject 1C-50 (FAST or SLOW)
- CFC and phthalate free
- Very low initial viscosity
- Excellent mechanical properties
- Good adhesion to the substrate in wet and dry condition
- Environmentally friendly

Technical parameters

1C



70 mPa·s



7-200 sec



~1.5 V



Weight

1 kg

5 kg

10 kg

Packaging

Tin canister

Tin canister

Tin canister

DSI Inject PUR CAT 1C-50 Add SLOW

Description

Additive, activator slow for DSI Inject PUR 1C-50-II. DSI Inject PUR CAT 1C-50 SLOW slows down the reaction of the injection material according to the application table in the technical data sheet.

Advantages

— Reaction times can be customised individually

Weight	Packaging
5 kg	Tin canister
10 kg	Tin canister

DSI Inject PUR CAT 1C-50 Add FAST

Description

Additive, activator fast for DSI Inject PUR 1C-50-II. DSI Inject PUR CAT 1C-50 FAST catalyst accelerates the reaction of the injection material according to the application table in the technical data sheet.

Advantages

— Reaction times can be customised individually

Weight	Packaging
5 kg	Tin canister
10 kg	Tin canister

DSI Inject PUR 1C-100-II

Areas of application



Description

DSI Inject PUR 1C-100-II is a single component, water-reactive, expanding polyurethane resin. It is suitable for gas sealing and water stop, crack injection, consolidation of the medium-fine sands and soil. The system is insensitive to water impurities.

Advantages

- Adjustable setting time with DSI Inject 1C Add FAST – CFC
- CFC and phthalate free
- Low initial viscosity
- Excellent mechanical properties
- Good adhesion to the substrate in wet and dry condition
- Environmentally friendly

Technical parameters

1C



300 mPa·s



5-150 sec



15-40 V



Weight

1 kg

5 kg

10 kg

Packaging

Tin canister

Tin canister

Tin canister

DSI Inject PUR 1C-100-II-R

Areas of application



Description

DSI Inject PUR 1C-100-II-R is a single component, water-reactive, expanding polyurethane resin. It is suitable for gas sealing and water stop, crack injection, consolidation of the medium-fine sands and soil. The system is insensitive to water impurities. The DSI Inject PUR 1C-100-II-R is ready to use blend with distributed catalyst (DSI Inject 1C Add FAST), making the application very easy (no need to mix catalyst before application). In needed the reaction time can be furthermore accelerated by using DSI Inject 1C Add FAST.

Advantages

- Ready for use without mixing
- CFC and phthalate free
- Low initial viscosity
- Excellent mechanical properties
- Good adhesion to the substrate in wet and dry condition
- Environmental friendly

Technical parameters

1C



300 mPa·s



25 sec



35-45 V



READY



Weight

1 kg

5 kg

10 kg

Packaging

Tin canister

Tin canister

Tin canister

DSI Inject PUR 1C-400

Areas of application



Description

DSI Inject PUR 1C-400 is a high elastic, single component, low viscosity, expanding polyurethane resin. It is suitable for gas sealing, water stops, and crack injection. The system is characterized by moderate foaming pressure and excellent adhesion. If required, the reaction time can be further accelerated by the use of DSI Inject 1C Add FAST.

Advantages

- High elastic foam
- Adjustable setting time
- Solvent free
- Can be used in a wide temperature range
- Environmentally friendly

Technical parameters

1C



400 mPa·s



50 sec



20 V



Weight

1 kg

5 kg

10 kg

Packaging

Tin canister

Tin canister

Tin canister

DSI Inject PUR 1C-400-II

Areas of application



Description

DSI Inject PUR 1C-400-II is a semi elastic, single component, low viscosity, expanding polyurethane resin. It is suitable for gas sealing, water stops, and crack injection. The system is characterized by moderate foaming pressure and excellent adhesion. If required, the reaction time can be further accelerated by the use of DSI Inject 1C Add FAST.

Advantages

- Elastic foam
- Adjustable setting time
- Solvent free
- Can be used in a wide temperature range
- Environmentally friendly

Technical parameters

1C



220 mPa·s



10-25 sec



15-40 V



Weight

1 kg

5 kg

10 kg

Packaging

Tin canister

Tin canister

Tin canister

DSI Inject PUR 1C-400-II-R

Areas of application



Description

DSI Inject PUR 1C-400-II-R is a semi-elastic, single component polyurethane resin with low viscosity and high expansion factor. It is suitable for gas sealing, water stopping and injection into cracks. The system has low foaming pressure and excellent adhesion. The DSI Inject 1C-400-II-R is a ready to use blend with distributed catalyst (DSI Inject 1C Add FAST), which makes the application very easy (no need to add a catalyst before application). If needed, the reaction time can be furthermore reduced by using DSI Inject 1C Add FAST.

Advantages

- Elastic foam
- Adjustable setting time
- Solvent free
- Can be used in a wide temperature range
- Environmentally friendly

Technical parameters

1C



220 mPa·s



3-15 sec



30-40 V



Weight

1 kg

5 kg

10 kg

Packaging

Tin canister

Tin canister

Tin canister

DSI Inject PUR CAT 1C Add FAST

Description

The catalyst DSI Inject PUR CAT 1C Add FAST catalyst accelerates the reaction of the injection material according to the application table in the technical data sheet.

Advantages

— Reaction times can be customised individually

Weight	Packaging
5 kg	Tin canister
10 kg	Tin canister

DSI Inject PUR CLEANER

Description

DSI Inject PUR CLEANER is a blend of organic esters. The cleaner shall be used for flushing of the injection equipment used for work with polyurethane materials. DSI Inject CLEANER can be used for flushing of pumps, hoses and other application equipment.

Note

DSI Inject PUR CLEANER is not suitable for use with sodium silicate-based components DSI Inject Bond, DSI Inject Fill and DSI Mineral Bolt.

Weight	Packaging
5 kg	Plastic canister
10 kg	Plastic canister
25 kg	Plastic canister

PUR 2C – two component

DSI Inject PUR 2C-203-E 

Areas of application



Description

DSI Inject PUR 2C-203-E is a slow-reacting, elastic, two component polyurethane resin. It is suitable for injection of wet and dry cracks, the injection of injection hoses and horizontal sealing. The two components are easy to mix, even at low temperatures and have a very low viscosity when mixed. DSI Inject PUR 2C-203-E is characterised by very low foaming, even under the influence of water.

Advantages

- Slow-reacting resin
- Well balanced and adjusted viscosities of the individual components
- Easy mixing even in different temperature ranges
- Low initial viscosity
- Good adhesion to substrates even under wet and dry conditions
- Can be applied with 1C and 2C pumps

Technical parameters



Componente	Weight	Packaging
A	1 kg	Tin canister
B	1.2 kg	Tin canister
A	5 kg	Tin canister
B	6 kg	Tin canister
A	10 kg	Tin canister
B	12 kg	Tin canister

DSI Inject PUR W

Areas of application



Description

DSI Inject PUR W is a fast-reacting two component polyurethane resin with high strength. It is suitable for soil/rock consolidation, gas, and water sealing. DSI Inject PUR W is 100 % solid, i.e., solvent- and phthalate free. The resin is environmentally friendly and has no restrictive or toxicological effects on the microorganism. Easily biodegradable. DSI Inject PUR W uses any existing water in the reaction process to foam the mixed resin and seal against inflowing water.

Advantages

- Fast reacting resin
- The resin reaction can be adapted to the situation with DSI Inject 2C Add FAST and Add THIX
- The system is 100 % solid (solvent and phthalate free)
- Well balanced and adjusted viscosities of the individual components
- Low initial viscosity
- Easy miscibility even in different temperature ranges
- Excellent mechanical properties
- Good adhesion to substrates even under wet and dry conditions
- Low environmental impact

Technical parameters



Componente	Weight	Packaging
A	10 kg	Tin canister
B	12 kg	Tin canister
A	20 kg	Plastic canister
B	24 kg	Plastic canister
A	25 kg	Plastic canister
B	30 kg	Plastic canister

DSI Inject PUR CAT 2C Add FAST

Description

The catalyst DSI Inject PUR CAT 2C Add FAST catalyst accelerates the reaction of the injection material according to the application table in the technical data sheet.

Advantages

— Reaction times can be customised individually

Weight	Packaging
5 kg	Plastic canister
10 kg	Plastic canister

DSI Inject PUR CAT 2C Add THIX

Description

The catalyst DSI Inject PUR CAT 2C Add THIX changes the properties in such a way that the injection material becomes more viscous but remains flowable under pressure.

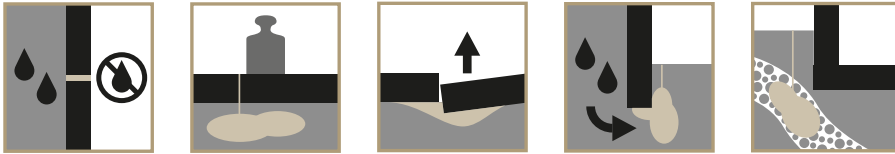
Advantages

— Viscosity can be adjusted individually

Weight	Packaging
5 kg	Plastic canister
10 kg	Plastic canister

DSI Inject PUR HF-2 (Foam)

Areas of application



Description

DSI Inject PUR HF-2 is a two component, fast-reacting, polyurethane resin with a foaming factor of 2 up to 3. It is suitable for ground/strata stabilization, slab lifting, ground compaction, and water stopping in the construction structures, i.e., tunnels sealing, portals sealing.

DSI Inject PUR HF-2 belongs to the DSI Inject PUR HF systems.

Advantages

- Fast setting resin
- 100 % solid system (solvent free)
- Well balanced and adjusted viscosity of the components
- Easy to mix in different temperatures
- Good mechanical properties
- Good adhesion to the substrate in wet and dry condition
- Excellent resin flow ability

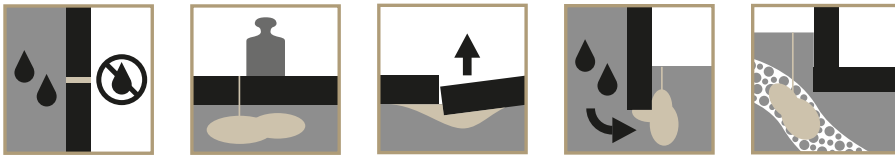
Technical parameters



Componente	Weight	Packaging
A	10 kg	Tin canister
B	12 kg	Tin canister
A	20 kg	Plastic canister
B	24 kg	Plastic canister
A	25 kg	Plastic canister
B	30 kg	Plastic canister

DSI Inject PUR HF-5 (Foam)

Areas of application



Description

DSI Inject PUR HF-5 is a two component, fast-reacting, polyurethane resin with a foaming factor of 5 up to 6. It is suitable for ground/strata stabilization, slab lifting, ground compaction, and water stopping in the construction structures, i.e., tunnels sealing, portals sealing.

DSI Inject PUR HF-5 belongs to the DSI Inject PUR HF systems.

Advantages

- Fast setting resin
- 100 % solid system (solvent free)
- Well balanced and adjusted viscosity of the components
- Easy to mix in different temperatures
- Good mechanical properties
- Good adhesion to the substrate in wet and dry condition
- Excellent resin flow ability

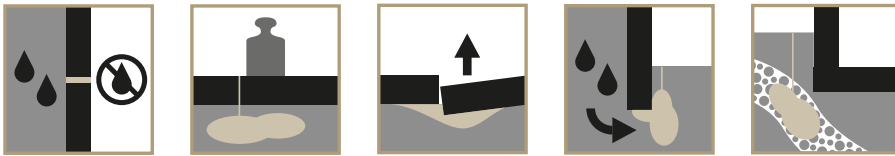
Technical parameters



Componente	Weight	Packaging
A	10 kg	Tin canister
B	12 kg	Tin canister
A	20 kg	Plastic canister
B	24 kg	Plastic canister
A	25 kg	Plastic canister
B	30 kg	Plastic canister

DSI Inject PUR HF-10 (Foam)

Areas of application



Description

DSI Inject PUR HF-10 is a two component, fast-reacting, polyurethane resin with a foaming factor of 10 up to 12. It is suitable for ground/strata stabilization, slab lifting, ground compaction, and water stopping in the construction structures, i.e., tunnels sealing, portals sealing.

DSI Inject PUR HF-10 belongs to the DSI Inject PUR HF systems.

Advantages

- Fast setting resin
- 100 % solid system (solvent free)
- Well balanced and adjusted viscosity of the components
- Easy to mix in different temperatures
- Good mechanical properties
- Good adhesion to the substrate in wet and dry condition
- Excellent resin flow ability

Technical parameters

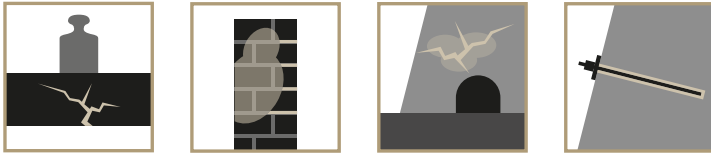


Componente	Weight	Packaging
A	10 kg	Tin canister
B	12 kg	Tin canister
A	20 kg	Plastic canister
B	24 kg	Plastic canister
A	25 kg	Plastic canister
B	30 kg	Plastic canister

Epoxy resins

DSI Inject Epoxy 2C-305-R

Areas of application



Description

DSI Inject Epoxy 305-R is a rigid two component epoxy resin. It is suitable for injection into cracks (in wet and dry conditions), injection into construction joints and for impregnation of cracks. Components of DSI Inject Epoxy are easily mixable and the resulting mixture has low viscosity.

Advantages

- Excellent mechanical and chemical properties
- Low initial viscosity
- Easy mixing in a broad temperature range
- Good adhesion to substrates in wet and dry conditions
- Can be applied with a single-component (1C) pump

Technical parameters

2C

3:1



180 mPa·s



30 min



1 V



100



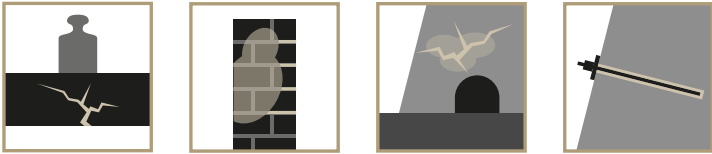
60 MPa



Componente	Weight	Packaging
A	1.0 kg	Tin canister
B	0.3 kg	Tin canister
A	2.8 kg	Tin canister
B	0.85 kg	Tin canister
A	5.0 kg	Tin canister
B	1.5 kg	Tin canister
A	10.0 kg	Tin canister
A	3.0 kg	Tin canister

DSI Inject Epoxy 2C-305-RS

Areas of application



Description

Slower version of DSI Inject Epoxy 305-R, rigid resin with very good mechanical and chemical properties. DSI Inject Epoxy 305-RS is a rigid two component epoxy resin. It is suitable for injection into cracks (in wet and dry conditions), injection into construction joints and for impregnation of cracks. Components of DSI Inject Epoxy are easily mixable and the resulting mixture has low viscosity.

Advantages

- Excellent mechanical and chemical properties
- Low initial viscosity
- Easy mixing in a broad temperature range
- Good adhesion to substrates in wet and dry conditions
- Can be applied with a single-component (1C) pump

Technical parameters



Componente	Weight	Packaging
A	1.0 kg	Tin canister
B	0.3 kg	Tin canister
A	2.8 kg	Tin canister
B	0.85 kg	Tin canister
A	5.0 kg	Tin canister
B	1.5 kg	Tin canister
A	10.0 kg	Tin canister
B	3.0 kg	Tin canister

I Acrylic gels

DSI Inject GELE E

Areas of application



Description

DSI Inject GELE E is a three component acrylate gel with an extremely low viscosity. The gel swells in the water. It reacts to a rubberlike, flexible material. It can be used for curtain injection, masonry injection, crack injection, sealing of construction joints, injection of injection hoses and soil stabilization. The gel is environmentally friendly and has no restrictive or toxicological effects on the microorganism.

Advantages

- Extremely low initial viscosity
- Easy to mix in different temperatures
- Adjustable reaction times

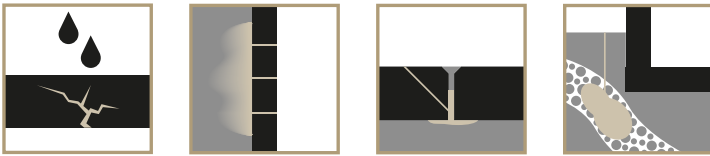
Technical parameters



Componente	Weight	Packaging
A I	20.0 kg	Plastic canister
A II	0.75 kg	Plastic canister
B II	0.4 kg	Plastic canister
	1.0 kg	Plastic canister

DSI Inject GELE V

Areas of application



Description

DSI Inject GELE V is a three component acrylate gel with an extremely high adhesion to substrate and low viscosity. The gel swells in the water. It reacts to an elastic, very flexible material. It can be used for curtain injection, masonry injection, crack injection, sealing of construction joints, injection of injection hoses and soil stabilization. The gel is environmentally friendly and has no restrictive or toxicological effects on the microorganism.

Advantages

- Very high adhesion
- Low initial viscosity
- Easy to mix in different temperatures
- Adjustable reaction times

Technical parameters

3C

1:1



35-40 mPa·s



2-8 min



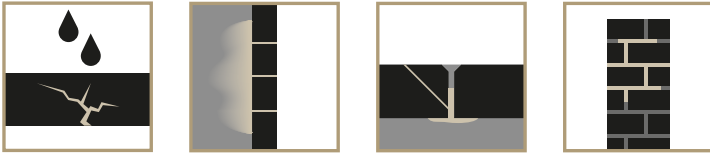
1 V



Componente	Weight	Packaging
A I	20.0 kg	Plastic canister
A II	0.25 kg	Plastic canister
B II	0.4 kg	Plastic canister
	1.0 kg	Plastic canister

DSI Inject GELE F

Areas of application



Description

DSI Inject GELE F is a four component, very fast curing acrylate gel with high adhesion to substrate and low viscosity. The gel swells in the water. It reacts to an elastic, very flexible material. It can be used for curtain injection, masonry injection, crack injection, sealing of construction joints, injection of injection hoses and soil stabilization. The gel is environmentally friendly and has no restrictive or toxicological effects on the microorganism.

Advantages

- Very high adhesion and elongation
- Low initial viscosity
- Easy to mix in different temperatures
- Adjustable reaction times
- Fast reaction time

Technical parameters

4C

1:1



~8 mPa·s



15-45 sec



1 V



Componente	Weight	Packaging
A I	20.0 kg	Plastic canister
A II	0.36 kg	Plastic canister
A III	0.91 kg	Plastic canister
B I	0.4 kg	Plastic canister
B II	1.0 kg	Plastic canister

Polymer for GELE

Description

DSI Inject GELE B III is a polymer suspension that complements acrylic gel systems when the following performance improvements are required:

- Reduce product shrinkage
- Improve product durability
- Improve adhesion

Componente	Weight	Packaging
B III (GELE E)	20 kg	Plastic canister
B III (GELE V and F)	18 kg	Plastic canister

Storage and transport

The products should be stored in dry and airy rooms with the ambient temperature from 10 °C to 30 °C. The guaranteed shelf life from the date of manufacture is 12 months provided that the products are stored in unopened original packaging.



Injection systems

Introduction

DSI Inject injection products are used in a wide variety of areas throughout the construction industry. Sealing, blocking, retaining, lifting, consolidating, and stabilizing are the areas of application. Sandvik Ground Support supplies the right injection product for the application, with which the task is solved in a targeted, effective, and economical manner.

In addition, we offer the appropriate injection technology from our own production, but also in co-operation with leading suppliers. If required, our experienced application team will be happy to support your success, whether in the run-up to selecting the right products or later during application on site.





Injection devices

Introduction

The selection of suitable technology for the economic implementation of the injection task and the optimal achievement of the injection aim depends on various factors.

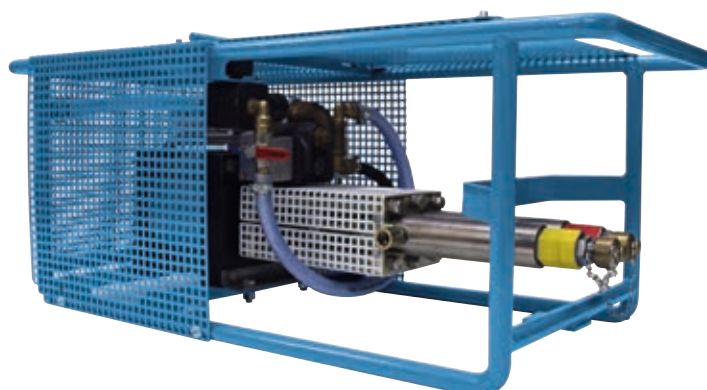
Sandvik Ground Support has decades of application experience worldwide and supports you in your selection. Many of our products, possible special products depending on the task, and cooperation with the leading suppliers in the injection market form a reliable product portfolio.

Injection equipment and accessories

Our single- and multi-component injection devices are available in different drive types. Mainly air-driven pumps are used.

Depending on the injection material and the application, electric or electro-hydraulic pumps can also be used.

We supply you with the job-specific equipment package with the associated mixing devices, high-pressure hoses, measuring instruments, and desired connections.





1C

Product

Name

DSI Inject MP-1

Art. No.

809810001001



Technical data

Description	Unit	Values
Complete with transport frame	—	—
Engine	230 V	Electric
Output/min	l/min	3.9
Mixing ratio	—	1C
Max. operating pressure	bar	200
Dimension L x W x H	mm	380 x 210 x 460
Weight	kg	23

Injection materials

Products

PUR 1C – one component polyurethane resins
EP 2C – two component epoxy

Areas of application



Accessories and spare parts

Description	Art. No.	Included in delivery
Funnel with cover 6 l	3800	✓
Injection gun with flexible hose 0.3 m and mouth piece	809261001001	✓
Mouth piece M10x1 mm for round head nipple	809265001005	–
Sliding coupling 90°	669301	–
Sliding coupling straight	641199	–
Suction valve kit	10348	–
Compression valve	4318	–
Diaphragm and support kit	4803	–
Pressure valve kit	10338	–
Pressure gauge kit with manometer and return valve	66005	–

Injection gun with mouth piece

Description	Art. No.
With flexible hose 0.3 m	809261001001
With rigid tube 0.2 m	809261001002



Product

Name

WIWA Inject HD2

Art. No.

809850644517



Technical data

Description	Unit	Values
Complete on frame	—	—
Engine	—	Air-driven
Output per double stroke	ccm	14
Output/min	l/min	3
Pressure ratio	—	33:1
Max. air inlet pressure	bar	8
Max. operating pressure	bar	264
Dimension L x W x H	mm	500 x 340 x 710
Weight	kg	16.3

Injection materials

Products

PUR 1C	– one component polyurethane resins
EP 2C	– two component epoxy

Areas of application



Accessories and spare parts

Description	Art. No.	Included in delivery
High pressure pump 14.33	644205	✓
Funnel with cover 6 l	631064	✓
Air pressure regulator	644180	✓
Safety valve	611891	✓
Ground wire	474487	✓
High pressure injection hose 7.5 m	410845	✓
Injection lance	641948	✓
Mouth piece M10x1 mm for round head nipple	809265001005	✓
Operation manual with spare parts list	–	✓
Stroke counter	671687	–
Inject gun	668657	–
Sliding coupling 90°	669301	–
Sliding coupling straight	641199	–
Repair kit airmotor	644387	–
Repair kit material pump	644383	–

Product

Name	Art. No.
WIWA Inject HD5 with suction hose line	809850669224



Technical data

Description	Unit	Values
Complete on chassis	—	—
Engine	—	Air-driven
Output per double stroke	ccm	72
Output/min	l/min	8
Pressure ratio	—	32:1
Max. air inlet pressure	bar	8
Max. operating pressure	bar	256
Dimension L x W x H	mm	500 x 340 x 710
Weight	kg	33

Injection materials

Products

PUR 1C – one component polyurethane resins
EP 2C – two component epoxy

Areas of application



Accessories and spare parts

Description	Art. No.	Included in delivery
High pressure pump 72.32	667865	✓
Air pressure regulator	663775	✓
Safety valve	611891	✓
Ground wire	474487	✓
Suction hose line	667173	✓
High pressure injection hose 7.5 m	410845	✓
Injection lance	641948	✓
Mouth piece M10x1 mm for round head nipple	809265001005	✓
Operation manual with spare parts list	–	✓
Stroke counter	671687	–
Inject gun	668657	–
Sliding coupling 90°	669301	–
Sliding coupling straight	641199	–
Repair kit airmotor	666797	–
Repair kit material pump	667906	–

2C

Product

Name	Art. No.
DESOI AirPower S25-2C	17601 (steel version) 17617 (stainless steel version)



Technical data

Description	Unit	Values
Complete on frame	—	—
Engine	—	Air-driven
Output/min	l/min	7.6
Mixing ratio	—	1:1
Pressure ratio	—	13:1
Max. air inlet pressure	bar	8
Max. operating pressure	bar	100
Dimension L x W x H	mm	580 x 240 x 460
Weight	kg	20.2

Injection materials

Products

	PUR 2C – two component polyurethane resins
	SIL 2C – two component silicate resins

Areas of application



Accessories and spare parts (steel version)

Description	Art. No.	Included in delivery
Carrying frame	–	✓
1.5 m suction system Ø 20 mm with suction filter Ø 40 mm	–	✓
2 x manometer 0-250 bar	–	✓
Return hose Ø 8 mm transparent	–	✓
Air plug NW 7.2	–	✓
High pressure hose 10 m steel Ø 6 mm with union nut M16x1.5	16871	✓
High pressure hose 10 m steel Ø 6 mm with union nut M14x1.5	16870	✓
2C-mixing head: 2 x high pressure ball valve, 2 x non-return-valve stainless steel, mixing pipe with 8 x static grid mixer, whip 0.3 m, sliding coupling straight mit free passage Ø 2.5 mm	17625-08	✓
Spare and wear part set: locking nut M17x1, compact piston Ø 25 mm, seals, outlet valves, pressure springs, ball inserts, O-rings, sieves, valve housing, etc.	17601-EVS	–
Set of tools: combination wrench AF (13, 17, 19, 22 and 24 mm), single open-end wrench AF 36 mm, socket wrench AF7, circlip pliers J2, hexagon allen wrench 5 mm, slotted screwdriver 5.5 mm, ring wrench for locking nut piston Ø 25 mm, etc.	17601-WS	–

Product

Name	Art. No.
WIWA Inject 2C 14015 GX F N with hose package and mixing unit, steel version	809840670489



Technical data

Description	Unit	Values
Complete with chassis	—	—
Engine	—	Air-driven
Output per double stroke	ccm	144
Output/min	l/min	15
Mixing ratio	—	1:1
Pressure ratio	—	15:1
Max. air inlet pressure	bar	8
Max. operating pressure	bar	120
Dimension L x W x H	mm	440 x 400 x 755
Weight	kg	29

Injection materials

Products

	PUR 2C – two component polyurethane resins
	SIL 2C – two component silicate resins

Areas of application



Accessories and spare parts

Description	Art. No.	Included in delivery
High pressure pump 144.15 R	673617	✓
Height-adjustable chassis	669853	✓
Air maintenance unit	663775	✓
External mixing unit incl. static mixer and whip	669555	✓
Suction hose line A	669523	✓
Suction hose line B	671169	✓
Material outlet with pressure gauge, check valve on return	669519	✓
Hose package RS 7.5 m 1/4"	669539	✓
Sliding coupling 90°	669301	✓
Sliding coupling straight	641199	✓
Mouth piece M10x1 mm for round head nipple	809265001005	✓
Operation manual with spare parts list	–	✓
Stroke counter	670950	–
Condenswater separator	669329	–
Extension mixing line	671626	–
Nipple for extension hose package	212695 (2x)	–
Repair kit airmotor	670485	–
Repair kit material pump	669940 (2x)	–
Repair kit mixing unit	672701	–
Mixing element	645308	–
Whip mixing unit 0.30 m	669787	–
Swivel	645231	–
Sealing for swivel	217824	–

Product

Name	Art. No.
WIWA Inject 2C 230030 F N, steel version (chassis version)	809820669992



Technical data

Description	Unit	Values
Complete on chassis	—	—
Engine	—	Air-driven
Output per double stroke	ccm	194
Output/min	l/min	20
Mixing ratio	—	1:1
Pressure ratio	—	30:1
Max. air inlet pressure	bar	8
Max. operating pressure	bar	240
Air connection: G 1" inner thread	—	—
Dimension L x W x H	mm	494 x 525 x 1125
Weight	kg	80

Injection materials

Products

	PUR 2C – two component polyurethane resins
	GELE 3C – acrylic injection resins

Areas of application



Accessories and spare parts

Description	Art. No.	Included in delivery
High pressure pump 194.30	673626	✓
Chassis	669279	✓
Air maintenance unit	669770	✓
External mixing unit incl. static mixer	669748	✓
2 x suction hose line for 25 and 200 l pails	669820 (2x)	✓
Pressure gauge with check valve on each material pump outlet	669714	✓
Hose package RS 15 m 3/8"	669748	✓
Operation manual with spare parts list	–	✓
Condeswater separator	670850	✓
Sliding coupling 90°	669301	✓
Sliding coupling straight	641199	✓
Stroke counter	670950	–
Extension mixing line	671771	–
Mouth piece M10x1 mm for round head nipple	809265001005	–
Nipple for extension hose package	658701	–
Repair kit air motor	654539	–
Repair kit material pump	643653	–
Repair kit mixing unit	672714	–
Mixing element	669675	–
Whip mixing unit 0.30 m	669800	–
Swivel	645231	–
Sealing for swivel	217824	–

2C with flushing pump

Product

Name	Art. No.
WIWA Inject 2C 14025 GX RS F with hose package and mixing unit, stainless steel version	809840669067



Technical data

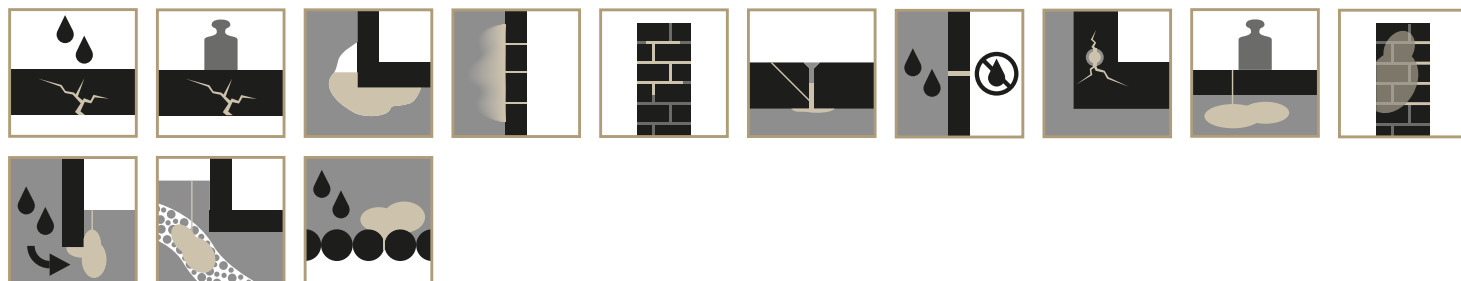
Description	Unit	Values
Complete with frame	—	—
Engine	—	Air-driven
Output per double stroke	ccm	80
Output/min	l/min	10
Mixing ratio	—	1:1
Pressure ratio	—	25:1
Max. air inlet pressure	bar	8
Max. operating pressure	bar	200
Dimension L x W x H	mm	450 x 310 x 830
Weight	kg	45

Injection materials

Products

	PUR 2C – two component polyurethane resins
	SIL 2C – two component silicate resins

Areas of application



Accessories and spare parts

Description	Art. No.	Included in delivery
High pressure pump 80.25 R	672806	✓
Flush pump 14.33 RS	669066	✓
Height-adjustable chassis	670231	✓
Air maintenance unit	669529	✓
External mixing unit incl. static mixer and whip	669666	✓
Suction hose line A for 25 l pails	669523	✓
Suction hose line B for 25 l pails	671169	✓
Pressure gauge with check valve on each material pump outlet	669068	✓
Hose package RS 7.5 m 1/4"	669720	✓
Sliding coupling 90°	669301	✓
Sliding coupling straight	641199	✓
Mouth piece M10x1 mm for round head nipple	809265001005	✓
Operation manual with spare parts list	–	✓
Stroke counter	670950	–
Condeswater separator	669329	–
Extension mixing line	671626	–
Nipple for extension hose package	212695 (3x)	–
Repair kit air motor	670485	–
Repair kit material pump	670487 (2x)	–
Repair kit mixing unit	671115	–
Mixing element	645308	–
Whip mixing unit 0.30 m	669787	–
Swivel	645231	–
Sealing for swivel	217824	–

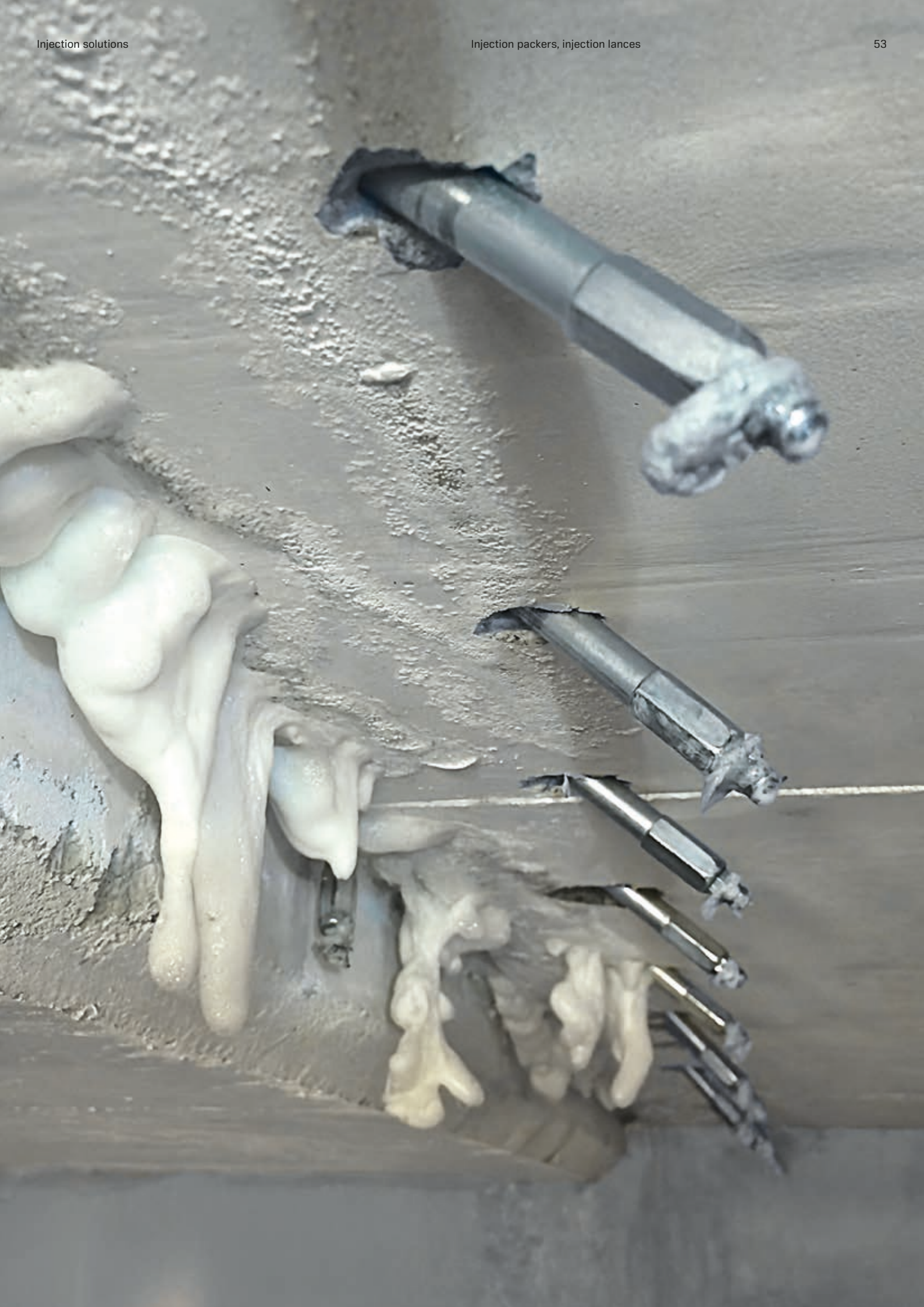
Injection packers, injection lances

Introduction

Every injection job has its standard but also its individuality. We supply an extensive range of mechanical injection packers, from the small injection packer for crack injection to the cavity filler packer in larger dimensions. Inflatable hydraulic packers, for example, for umbrella injection, are also part of the range.

Self-drilling hollow bar anchors made of steel/GRP or ram lances for ground consolidation and many other products are included in our extensive range as a manufacturer of injection solutions. Individual tailor-made solutions to your requirements can also be produced cost-effectively and within a short time.





Hydraulic packers single use

Introduction

These Hydraulic Packers Single Use are used in tunnelling and mining for the injection of fissures, the stabilization of rock, but also for sealing e.g. exploratory holes for example.

Injection materials based on synthetic resins are often used.

The Hydraulic Packers Single Use is placed in front of the injection point using rods or injection lines and the injection process is started. The disposable packer has a bursting disc.

The injection pressure inside the packer builds up against this disc and allows the injection material to flow into the expansion area via a hose valve. The packer inflates and presses against the borehole wall until the burst pressure of approx. 50 bar is reached.

The bursting disc then bursts and the injection material can flow into the borehole channel.

One-way bore hole packer steel



Areas of application



Description	Dimensions (Ø x length)	Art. No.
	36 x 350 mm	809214001001
Connection thread M20x1.5 external	40 x 350 mm	809214001002
	55 x 430 mm	809214001003
	75 x 530 mm	809214001004

One-way bore hole packer polymer

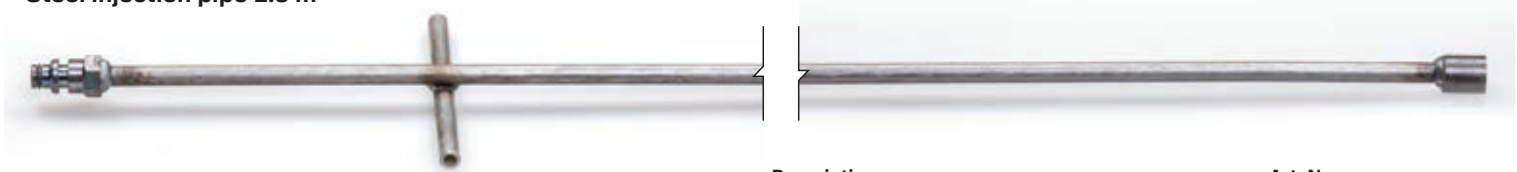


Areas of application



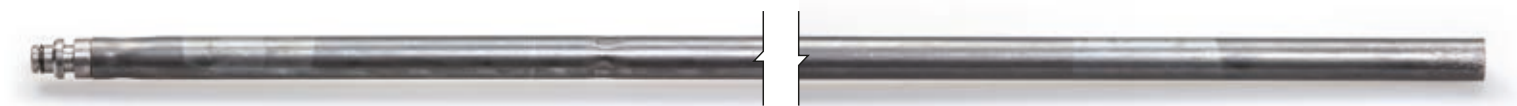
Description	Dimensions (Ø x length)	Art. No.
	36 x 350 mm	809214001005
Connection thread M20x1.5 external	40 x 350 mm	809214001006
	55 x 430 mm	809214001007
	75 x 530 mm	809214001008

Steel injection pipe 1.5 m



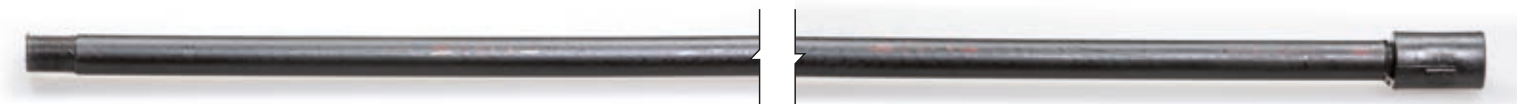
Description	Art. No.
With both sides thread M20x1.5 internal	809264001001
With thread M20x1.5 internal and plug Steck-O DN10	809264001002

Extension 1.5 m for steel injection pipe



Description	Art. No.
With both sides thread M20x1.5 internal	809264001001
With thread M20x1.5 internal and plug Steck-O DN10	809264001002

Plastic injection pipe



Description	Art. No.
1.5 m both sides thread M20x1.5 external	809264001003
1.5 m both sides thread M20x1.5 internal/external	809264001005
2 m both sides thread M20x1.5 external	809060012001
2 m both sides thread M20x1.5 internal/external	809264001004

Hydraulic packers reusable

Introduction

These packers are supplied as single and double packers for various applications in tunnelling and mining.

Single packer have 1 expansion point, double packers have 2 expansion points which are placed in front of the injection area by means of a pump and an expansion medium, such as water or compressed air.

The injection material is fed to the packer via a separate line and exits between the two expansion points and can therefore be injected into a specific area in a targeted manner. After successful injection, the packer is depressurised and retracted to the next injection point. Depending on the size and use of the packer, it is secured using a safety cable.



Hose packer single



Areas of application



Description	Hose packer single	Rubber length	Total length	Art. No. spare hose	Art. No.
Hose packer with one expansion hose	23-30 mm	180 mm	505 mm	044 023 030 019	809213001001
		250 mm	690 mm	044 023 030 026	809213001002
		500 mm	940 mm	044 023 030 051	809213001003
	30-55 mm	250 mm	750 mm	044 030 056 026	809213001004
		500 mm	1,000 mm	044 030 056 051	809213001005
		1,000 mm	1,500 mm	044 030 056 101	809213001006
	40-75 mm	250 mm	810 mm	044 040 076 026	809213001007
		500 mm	1,060 mm	044 040 076 051	809213001008
		1,000 mm	1,560 mm	044 040 076 101	809213001009
	42-95 mm	250 mm	810 mm	044 042 095 026	809213001010
		500 mm	1,060 mm	044 042 095 051	809213001011
		1,000 mm	1,560 mm	044 042 095 101	809213001012
	55-120 mm	250 mm	910 mm	044 054 120 026	809213001013
		500 mm	1,170 mm	044 054 120 051	809213001014
		1,000 mm	1,670 mm	044 054 120 101	809213001015

Connection thread: coupling G $\frac{1}{2}$ "/G1"/G 1 1/2", connection expansion hose: G06 LL

Hose packer double



Areas of application



Description	Hose packer single	Rubber length	Art. No. spare hose	Art. No.
Hose packer with two expansion hoses	25-38 mm	2 x 180 mm	044 024 038 181	809213001016
	30-55 mm	2 x 250 mm	044 030 056 251	809213001017
	40-75 mm	2 x 250 mm	044 040 076 251	809213001018
	42-95 mm	2 x 250 mm	044 040 095 251	809213001019
	55-120 mm	2 x 250 mm	044 054 120 250	809213001020

Connection thread: coupling G $\frac{1}{2}$ "/G1"/G 1 1/2", connection expansion hose: G06 LL

Mechanical packers metal

Introduction

This type of packer is used for various applications in different areas of construction, both in building construction, civil engineering and tunnelling. They are used for crack injection, curtain injection, masonry stabilization, horizontal sealing, joint injection and many more. The packer is placed in the borehole and then tightened using a socket wrench, ring wrench or open-end wrench.

The rotating movement causes the clamping rubber to expand

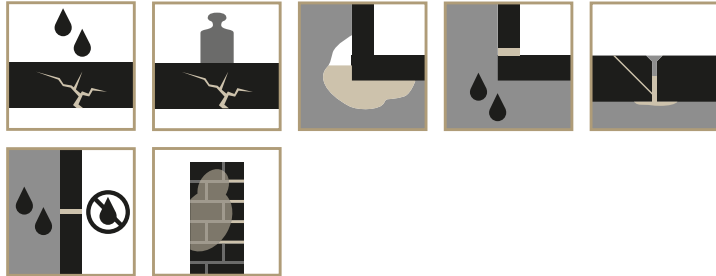
and presses against the injection material in the borehole, tightening and sealing it. After the injection process and setting of the injection material, the packer is "relaxed" and removed or the upper part is knocked off. Packers with an additional non-return valve in the clamping area are a special design. These can be knocked off immediately after injection to save time and speed up completion.



Steel packer with high pressure round head nipple



Areas of application



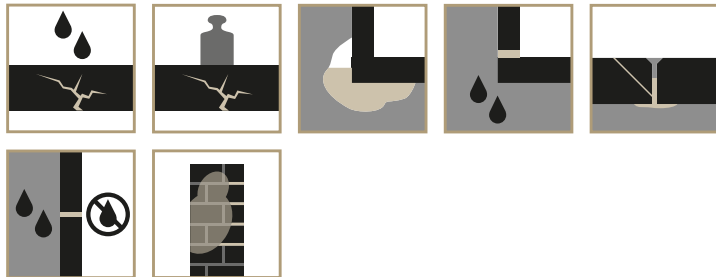
Ø x length	Art. No.
8 x 75 mm	809215001001 (Unit 200 pieces)
10 x 110 mm	809215001002 (Unit 200 pieces)
10 x 150 mm	809215001003 (Unit 100 pieces)
10 x 200 mm	809215001004 (Unit 50 pieces)
10 x 300 mm	809215001005 (Unit 20 pieces)
12 x 110 mm	809215001006 (Unit 100 pieces)
12 x 150 mm	809215001007 (Unit 100 pieces)
12 x 200 mm	809215001008 (Unit 50 pieces)
12 x 300 mm	809215001009 (Unit 20 pieces)
14 x 110 mm	809215001010 (Unit 100 pieces)
14 x 150 mm	809215001011 (Unit 100 pieces)
14 x 200 mm	809215001012 (Unit 50 pieces)
14 x 300 mm	809215001013 (Unit 20 pieces)
16 x 110 mm	809215001014 (Unit 100 pieces)
16 x 150 mm	809215001015 (Unit 100 pieces)

Further diameter and length are also available. Send us your request!

Steel packer with high pressure flat head nipple



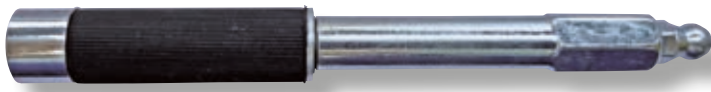
Areas of application



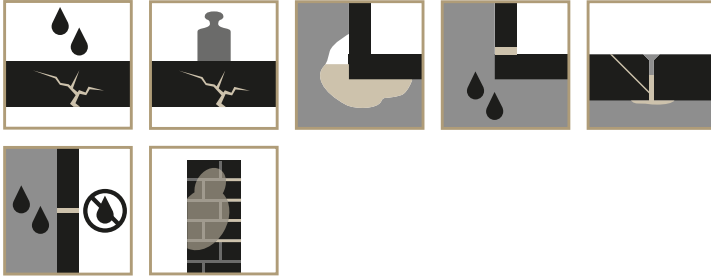
Ø x length	Art. No.
10 x 110 mm	809215001016 (Unit 200 pieces)
10 x 150 mm	809215001017 (Unit 100 pieces)
10 x 200 mm	809215001018 (Unit 50 pieces)
10 x 300 mm	809215001019 (Unit 20 pieces)
12 x 110 mm	809215001020 (Unit 100 pieces)
12 x 150 mm	809215001021 (Unit 100 pieces)
12 x 200 mm	809215001022 (Unit 50 pieces)
12 x 300 mm	809215001023 (Unit 20 pieces)
14 x 110 mm	809215001024 (Unit 100 pieces)
14 x 150 mm	809215001025 (Unit 100 pieces)
14 x 200 mm	809215001026 (Unit 50 pieces)
14 x 300 mm	809215001027 (Unit 20 pieces)
16 x 110 mm	809215001028 (Unit 100 pieces)
16 x 150 mm	809215001029 (Unit 100 pieces)

Further diameter and length are also available. Send us your request!

One-day-packer steel with high pressure round head nipple and non-return valve



Areas of application



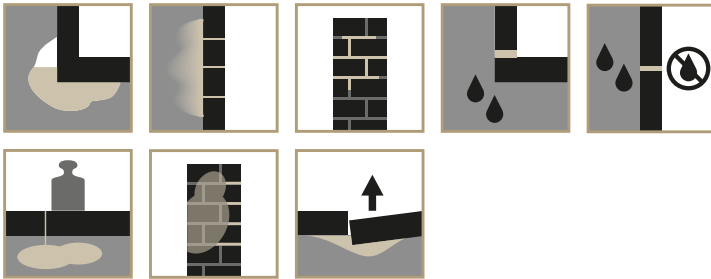
Ø x length	Art. No.
10 x 110 mm	809215001030 (Unit 100 pieces)
14 x 110 mm	809215001031 (Unit 100 pieces)

Further diameter and length are also available. Send us your request!

Steel packer with thread M10x1



Areas of application

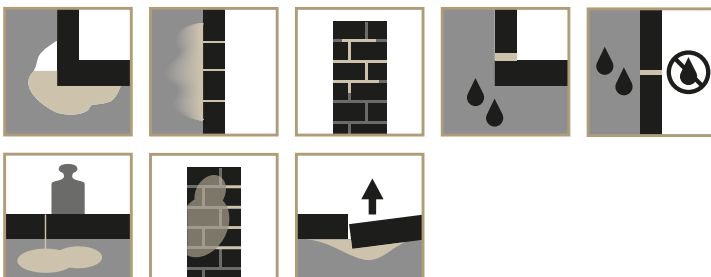


Ø x length	Art. No.
18 x 175 mm	809215001032 (Unit 10 pieces)
18 x 300 mm	809215001033 (Unit 10 pieces)
18 x 500 mm	809215001034 (Unit 10 pieces)

Steel packer with thread G1/4"



Areas of application



Ø x length	Art. No.
25 x 250 mm	809215001035 (Unit 10 pieces)
25 x 500 mm	809215001036 (Unit 10 pieces)
30 x 250 mm	809215001037 (Unit 10 pieces)
30 x 500 mm	809215001038 (Unit 10 pieces)

Further diameter and length are also available. Send us your request!

Flat head nipple ball Ø 5 mm

Thread	Art. No.
M10x1 internal	809265001001
G $\frac{1}{4}$ " internal	809265001002

Locking tappet

Thread	Art. No.
M10x1 internal	809265001003
R $\frac{1}{4}$ " internal	809265001004

Mouth piece M10x1 for round head nipple

Art. No.
809265001005

Slide coupling for flat head nipple

Thread	Art. No.
M10x1	809265001006
M10x1 angled 90°	809265001008

Injection coupling for locking tappet G $\frac{1}{4}$ " male thread

Art. No.
809265001011

Packers plastic

Introduction

Plastic packers are also used for various applications in different areas of building construction, civil engineering, and tunnelling. Special plastic mixtures make the packers strong and flexible at the same time, so that they do not break when hammered in, but also provide a flexible seal against the injection material on the borehole wall. There are also mixed forms made of steel and

plastic that are tensioned using a clamping rubber. A special form is the adhesive packer, which is used, for example, for prestressed concrete or heavily reinforced concrete. These are glued to the crack with the help of "glue" and then injected. The lamella packers are knocked off after the injection material has set.

Special plastic packer 10 mm high pressure with round head nipple



Art. No.

809215001040 (Unit 100 pieces)

Areas of application



Special plastic packer 10 mm high pressure with round head nipple and non-return valve



Art. No.

809215001041 (Unit 100 pieces)

Areas of application



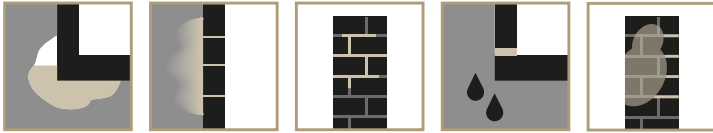
Lamella packer 18 mm with air plug



Art. No.

809215001043 (Unit 100 pieces)

Areas of application



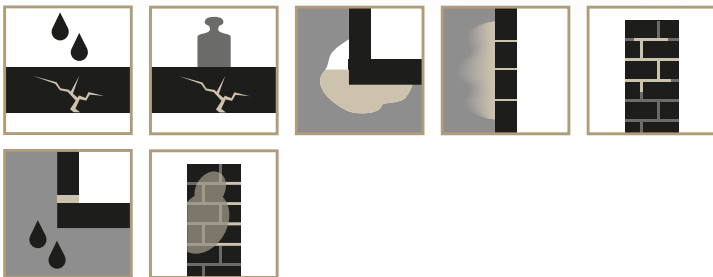
Lamella packer 14 mm with flat head nipple and slider



Art. No.

809215001044 (Unit 100 pieces)

Areas of application



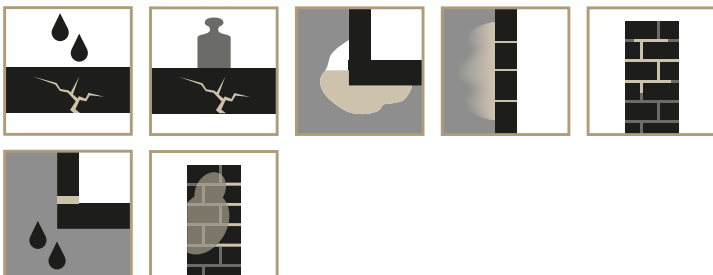
Lamella packer 18 mm with flat head nipple and slider



Art. No.

809215001045 (Unit 100 pieces)

Areas of application



Glue packer 50 mm with round head nipple



Areas of application



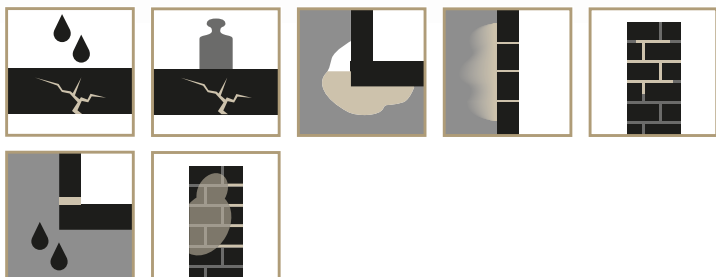
Art. No.

809215001042 (Unit 100 pieces)

Combi packer 14 mm with thread M6 female and R1/4" male



Areas of application



Art. No.

809215001046 (Unit 100 pieces)

Locking tappet



Thread

Art. No.

M10x1 internal

809265001003

R1/4" internal

809265001004

Injection coupling for locking tappet G1/4" male thread



Art. No.

809265001011



Injection lances for ramming

Introduction

Injection lances for ramming are used for injecting into the subsoil for sealing and stabilisation or lifting.

The ramming lances are driven into a pre-defined depth using a hammer or hammer drill and ramming tool. The lances can be extended using a connecting sleeve. The tip at the end of the lance is secured in the lance with an O-ring.

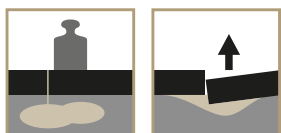
The lance is pulled back a few centimetres before injection and the injection material pushes the tip out and allows the injection material to flow through. The application can also be carried out under the basement slab. In this case, the lance is fitted with a steel packer at the beginning, which is clamped in the basement slab.



Injection lance for ramming



Areas of application



Ø x length	Art. No.
13 x 500 mm	809265001009
13 x 1,000 mm	809265001010

Coupling G $\frac{1}{4}$ "**Art. No.**

809265001011

Injection tip with O-ring sealing**Art. No.**

809265001012

Ramming tool with thread G $\frac{1}{4}$ " internal**Art. No.**

809265001013

Ramming tool with SDS-Plus**Art. No.**

809265001014

Flat head nipple ball Ø 5 mm**Thread****Art. No.**

M10x1 internal

809265001001

G $\frac{1}{4}$ " internal

809265001002

Pull and injection device connection 2 x G $\frac{1}{4}$ " internal/external**Art. No.**

809265001015

Injection lances for drilling

Introduction

Injection lances for drilling are used for injecting into the subsoil in difficult ground conditions for sealing and stabilisation or lifting. These injection lances are equipped with a drill bit. The drill bit is selected according to the subsoil. The injection lances are then drilled into the subsoil to a defined depth or at various depths using a drilling rig. The extension of the individual pieces is

achieved with the connecting sleeve. For injection, the injection adapter is then screwed on with a Steck-O connection and can then be injected. The injection lances can also be used under a basement for lifting or stabilisation.

The injection lances can remain in the subsoil as lost reinforcement.



Injection lance for drilling



Areas of application



Ø x length

Art. No.

R25 Hollow Bar x 1,000 mm

300510201010

R25 Hollow Bar x 2,000 mm

300510201020

R25 Hollow Bar x 3,000 mm

300510201030

Cross drill bit R25 hardened



Art. No.

300580111042

Coupling R25



Art. No.

300530011150

Injection adapter R25 steck-O DN10



Art. No.

809060011063

Connecting parts and fittings

Introduction

Important parts that connect individual assemblies with each other, extend or join parts with different connections or threads.

However, they can also be parts that stop the flow of material or bring components together.



Double coupling Steck-O DN10



Art. No.

809060011007

Double coupling Steck-O DN12-DN10



Art. No.

809690602203

T-piece Steck-O coupling



Diameter	Art. No.
DN10	809264540136
DN20	809060011012

T-piece coupling/coupling/plug Steck-O DN10



Art. No.
809264540134

X-piece coupling Steck-O DN10



Art. No.
809264540121

Y-piece coupling Steck-O DN10



Art. No.
809060011003

Coupling/plug Steck-O DN10 90°



Art. No.
809090602117

90° coupling Steck-O DN10



Art. No.
809060011009

Plug Steck-O/coupling Steck-O

Diameter	Art. No.
DN10 - DN12	809264540026
DN10 - DN20	809264540030
DN12 - DN10	809264540211
DN20 - DN10	809264540029

Plug Steck-O internal

Diameter	Art. No.
DN10 - 1/4" internal	809264540041
DN10 - 1/2" internal	809264540113
DN10 - M16x1.5 internal	809264540152
DN10 - M20x1.5 internal	809264540154
DN12 - 1/2" internal	809264540125

Plug Steck-O external

Diameter	Art. No.
DN10 - 1/4" external	809264540111
DN10 - 3/4" external	809264540112
DN12 - 1/2" external	809264540115
DN20 - 3/4" external	809264540124

Double plug Steck-O

Diameter	Art. No.
DN10	809060011001
DN12 - DN10	809060011004

Coupling Steck-O internal

Diameter	Art. No.
DN10 - 1/2" internal	809690602115
DN12 - 1/2" internal	809264540126

Coupling Steck-O external



Diameter	Art. No.
DN10 - 1/4" external	809264540110
DN10 - 1/2" external	809090602120
DN10 - M16x1.5 external	809264540158
DN12 - 3/8" external	809264540120
DN12 - 3/4" external	809264540127

Blind plug Steck-O



Diameter	Art. No.
DN10	805060011137
DN12	809264540034

Clip Steck-O



Diameter	Art. No.
DN10	809090602107
DN12	805060011113

Non-return valve coupling/plug Steck-O DN10 long



Art. No.
809264540139

Non-return valve coupling/plug Steck-O DN10 short



Art. No.
809264540138

Non-return valve coupling Steck-O DN10



Art. No.
809090602118

Safety ball valve coupling/plug Steck-O DN10

Color	Art. No.
Black	805060011015
Red	805060011013
Yellow	805060011014

Manometer 0-25 MPa with plug Steck-O DN10

Art. No.
809090602119

Static mixer mixing device

A stationary or static mixer is a device for mixing fluids that do not have moving elements and in which the flow movement alone causes the mixing. It consists of flow-influencing elements in a pipe. These alternately divide the material flow and then bring it

together again, through which the mixing is achieved. Static mixers are suitable for combinations of liquid/liquid, gaseous/gaseous and liquid/gaseous, under certain circumstances, also for bulk materials.



Static mixer



Ø x length	Art. No.
Blue 9.7 x 238 mm	809390820010
Yellow 12.3 x 187 mm	809060011060
White 15.7 x 194 mm	809060011061

Mixing pipe with 2 x static mixer and plug Steck-O DN10 both sides



Art. No.
809090720360

Mixing pipe with 2 x static mixer and plug/coupling Steck-O DN10



Art. No.
809060011062

Service

Our service is designed to successfully support you in the consultation, preparation and execution of your construction sites. You benefit from our decades of experience gained from assignments all over the world. We fulfil your individual requirements in all areas. We accompany you personally. We supply the right product and injection technology from our standard range at the right time. Customisations on the construction chemicals side as well as in the technology are possible at any time. Our specialists are available for instruction and training during the injection process.

Your benefit

- 33 years of experience in development, production and application
- Broad and deep range of standard products
- Experienced and solution-oriented application team
- Product customization possible within a short time
- Private label products
- Small production quantities from 1 ton
- Special and customized products – new developments
- Certified company ISO 9001:2015/ISO 14001:2015/ISO 45001:2015
- Products with groundwater and/or drinking water testing
- Partial CE marking in accordance with EN 1504-5 2+ or 4
- Sustainability
- Safety and security
- Flexibility
- Cost-oriented



Education and training

We offer you extensive options for theoretical training, product training or application handling. In person at your premises, on the construction site, at one of our production sites, via Teams or virtually with our daughter company EDVIRT (www.edvirt.com).

Another possibility is offered by the tunnel research centre ZaB (www.zab.at). Here we are optimally networked and technically/chemically equipped to demonstrate you a wide variety of technical and chemical solutions under real conditions.



All dimensions, weights, quantities, and specifications are those applicable at the time of this publication and may be amended from time to time. Please contact your local representative for final confirmation of any key specifications.