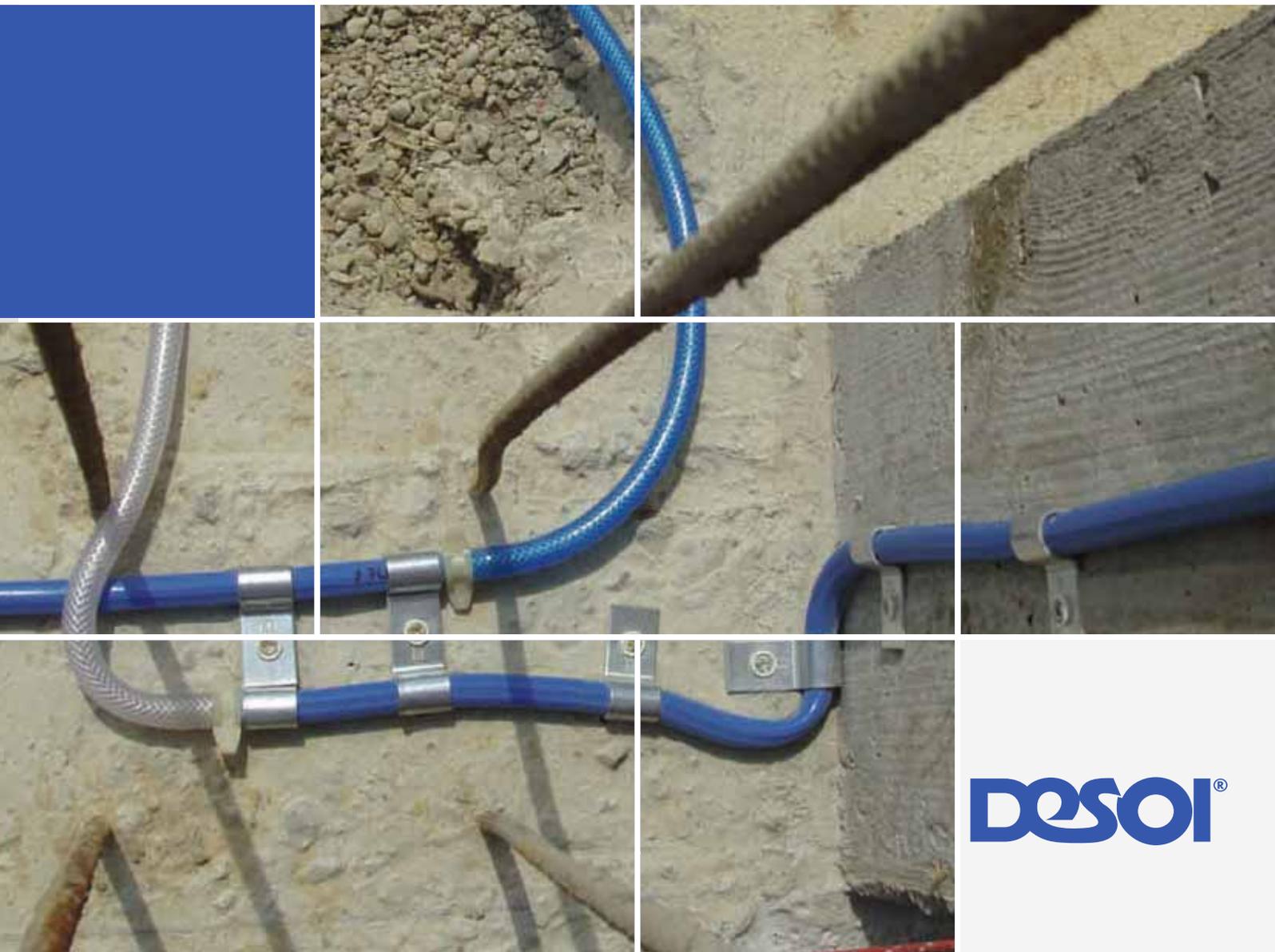




# Injection hose system



# Injection hose system

## Information

The information on the methods are recommendations and not binding.  
If required, please, contact us for professional advice.

## Advantages

- No time-consuming sealing by injection packers
- Reasonable, technical method for preventive as well as additional sealing
- Low consumption of injection material

## Examples of Application

- Buildings in ground water area (white tank)
- Especially in wall/base area
- For tube ducts (aim: sealing)
- Waterworks and wastewater treatment plants, clear-water reservoirs, underground car parks, tunnels, etc.

## Installation

The injection hose shall be fixed tightly at the hardened concrete building component by continuous anchoring so that it cannot float on fresh concrete.

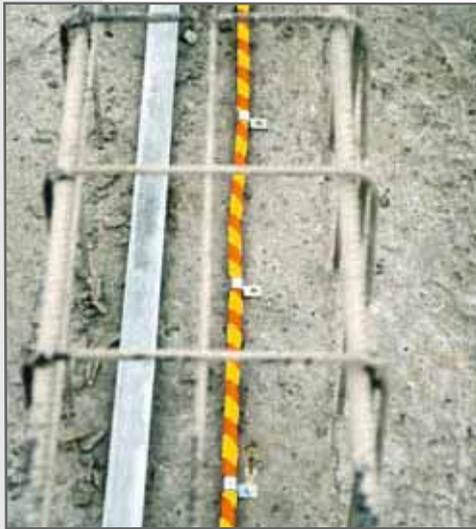
The fixing of the hose can be carried out by:

- Mounting clips
- Fixations for injection hoses

Normally the fixations are placed with a distance between them of about 15 cm. If necessary this distance must be adapted to on-site conditions.

## Information about installation

- Length of injection hose: about 10 – 12 m
- Injection hose must lie flat on the concrete to avoid any reduction of cross section
- Fix injection hose, e.g. with mounting clips
- Distance of injection hose to the outside of wall
- The hoses shall overlap by at least 15 cm and should lie parallel at a distance of about 3 – 5 cm
- Enter position of injection hoses in the drawings



# Injection hoses

## Information

Injection hose D-1 certified by MFPA Leipzig acc. to Bauregelliste A, part 2  
Test certificate no.: P-SAC 02/2.2/06 - 373

Order number

## Reaction resins and cement suspensions

	<b>Injection hose D-1</b> outside-Ø 13 mm and internal-Ø 6 mm  Reel with 120 m Customized (minimum order 10 m)	34045 34047
	<b>Injection material</b> <ul style="list-style-type: none"> <li>• PUR foaming resin</li> <li>• PUR resin</li> <li>• EP resin</li> <li>• Cement suspension</li> </ul>	

## Reaction resins

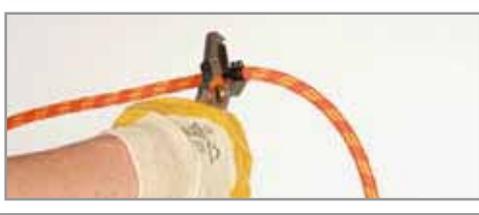
	<b>Injection hose U-1</b> with coating, outside-Ø 11 mm and internal-Ø 5 mm  Reel with 100 m Customized (minimum order 10 m)	34060 34055
	<b>Injection material</b> <ul style="list-style-type: none"> <li>• PUR foaming resin</li> <li>• PUR resin</li> <li>• EP resin</li> <li>• Cement suspension</li> </ul>	

## Accessories - injection hoses

	<b>Plastic connection piece</b> with tapered tapered wood screw thread, Ø 8 (shank) x 68 mm	31560
	<b>Fixation for injection hose</b> for drill hole Ø 6 mm; 100 pcs. per packing unit	35139
	<b>Hammer drill</b> with SDS plus, spiral length 100 mm, Ø 6 x 160 mm	25155
	<b>Mounting clip Ø 13 mm</b> with one bracket; 100 pcs. per packing unit  Dimensions: length = 45 mm, width = 20 mm, 1.5 mm thick  <b>Note</b> 7 mounting clips are necessary to fasten 1 m of injection hose.	25130
	<b>Drive-in plug</b> 100 pcs. per packing unit, Ø 5 x 30 mm	25126

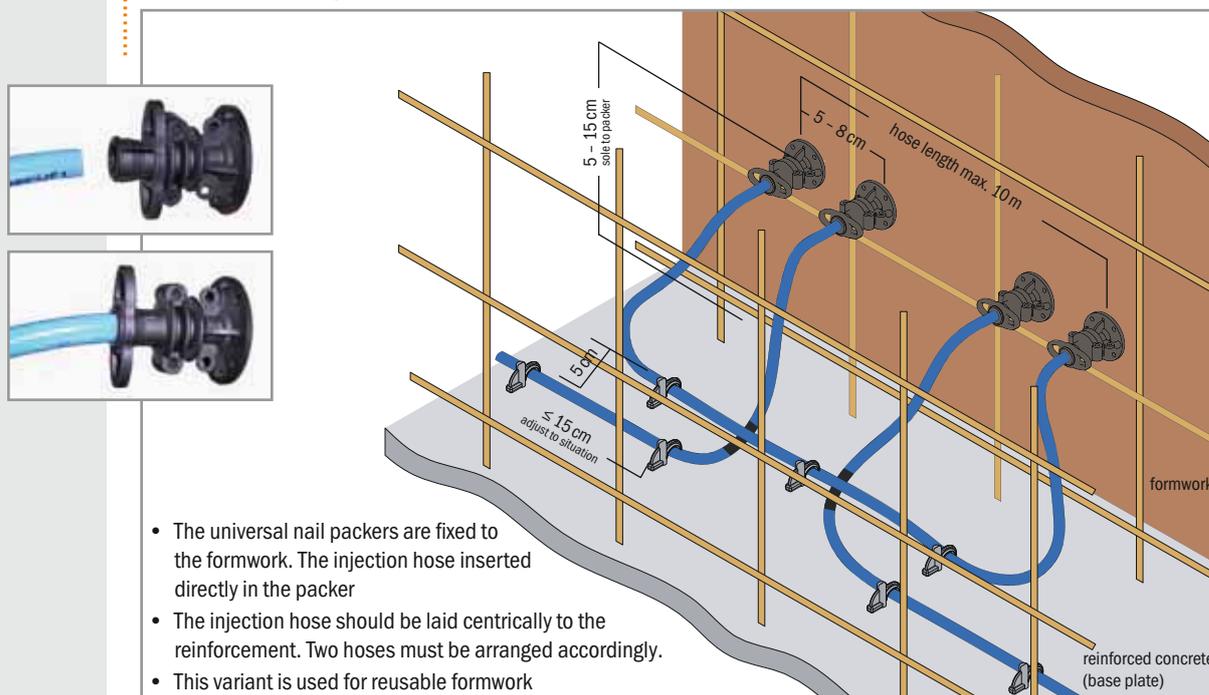
# Accessories - injection hoses

Order number

25137	<b>2-ear hose clamp</b> 100 pcs. per packing unit, Ø 13 - 15 mm	
25154	<b>Hammer drill</b> with SDS plus, spiral length 100 mm, Ø 5 x 160 mm	
25006	<b>Special cutter</b> to cut the injection hose  <b>Note</b> Tape the injection hose with insulating tape where it is intended to be cut. Then cut the hose in the centre using the special cutter. Doing so the coating is prevented from fraying.	 
25134	<b>Insulating tape</b> Dimensions: width = 30 mm, length = 25 m	

# Application - injection hoses D-1

## Installation of the injection hose



## Application - injection hoses D-1

Order number



### Universal nail packer - white

with protective plug white for filling side, internal thread M8, with plug-in connection and 2 sleeves for nail packer holder; height = 55 mm

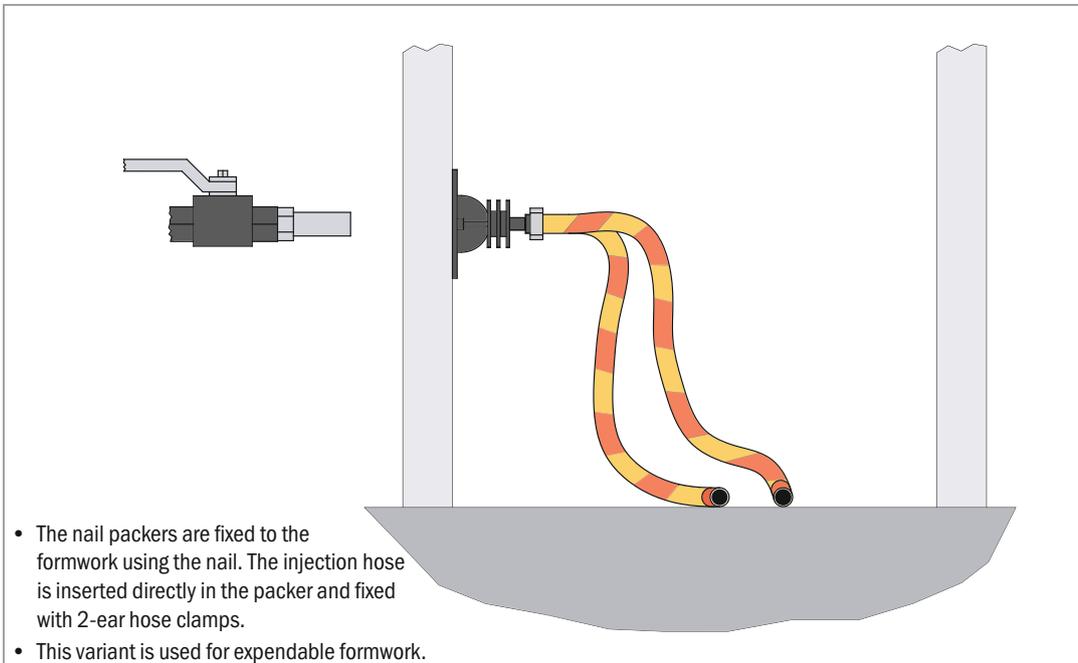
31150

### Universal nail packer - red

with protective plug red for venting side, internal thread M8, with plug-in connection and 2 sleeves for nail packer holder; height = 55 mm

31152

## Application - injection hoses U-1



### Star nail packer, white

with protective plug white for filling side, internal thread M8, tapered wood screw thread, 2 sleeves for nail packer holder; height = 55 mm

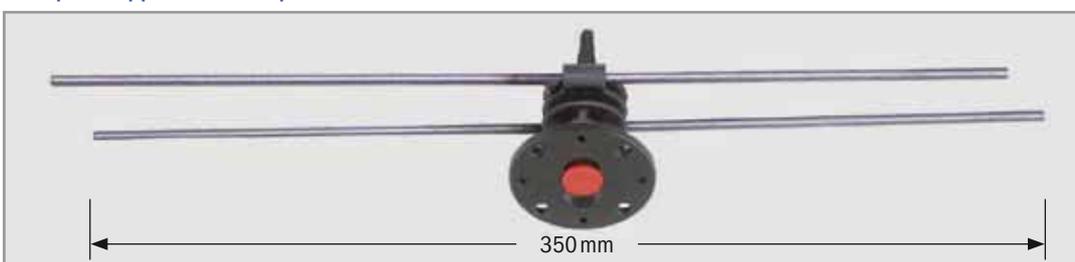
31154

### Star nail packer, red

with protective plug red for venting side, internal thread M8, tapered wood screw thread, 2 sleeves for nail packer holder; height = 55 mm

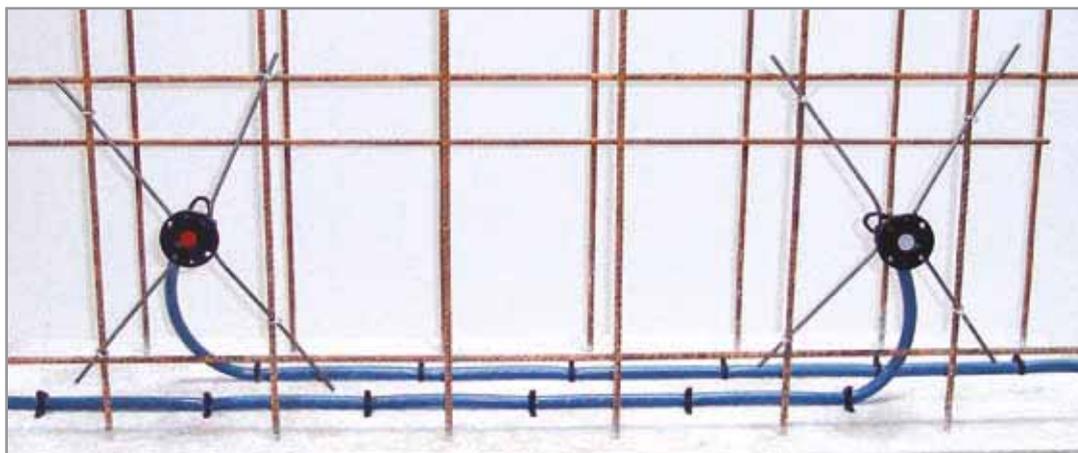
31156

### Example of application: nail packer holder mounted



# Nail packer holders

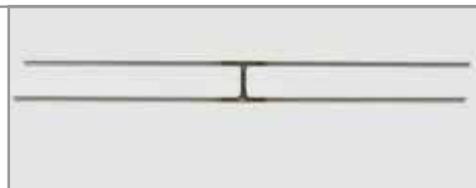
Order number



The mounted nail packer holders with nail packers are fixed to the reinforcement by binding wire.

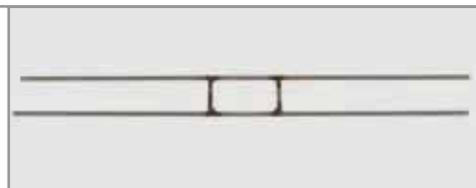
25610

**Nail packer holder**  
for 1 nail packer  
Dimensions: length = 350 mm, Ø 4 mm

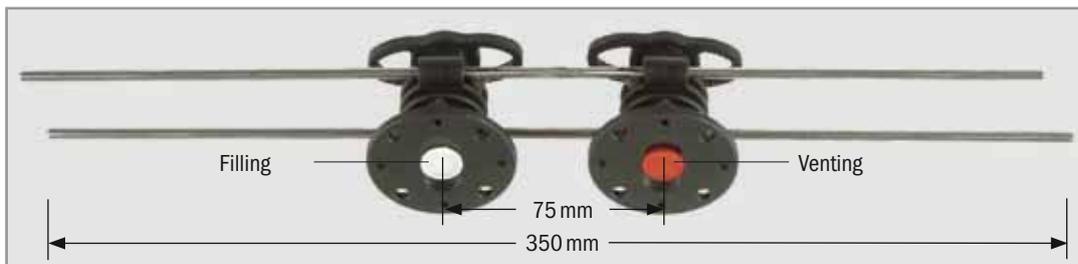


25612

**Nail packer holder**  
for 2 nail packers  
Dimensions: length = 350 mm, Ø 4 mm



## Examples of application: nail packer holders mounted



## Advantages

- By using the nail packer holder the position of the nail packer can be freely decided.
- The required contact pressure of the nail packer is created by the flexibility of the nail packer holder.

# Accessories for nail packers

Order number

## Examples of application: nail packer with extension tube M8



**Extension tube M8**  
with diameter of bore  $\varnothing$  3 mm and HP round head nipple  
Dimension: length = 35 mm

20863

**Note**  
Extension for nail packers  
(order nos.: 31150, 31152, 31154, 31156)



**HP round head nipple M8, long**

20826

**LP round head nipple M8, long**

20828



**Microcellular rubber plate  $\varnothing$  50 mm**  
with adhesive film  
10 mm thick, red  
20 mm thick, red

25173  
25171



**Microcellular rubber plate  $\varnothing$  50 mm**  
with adhesive film  
10 mm thick, grey  
20 mm thick, grey

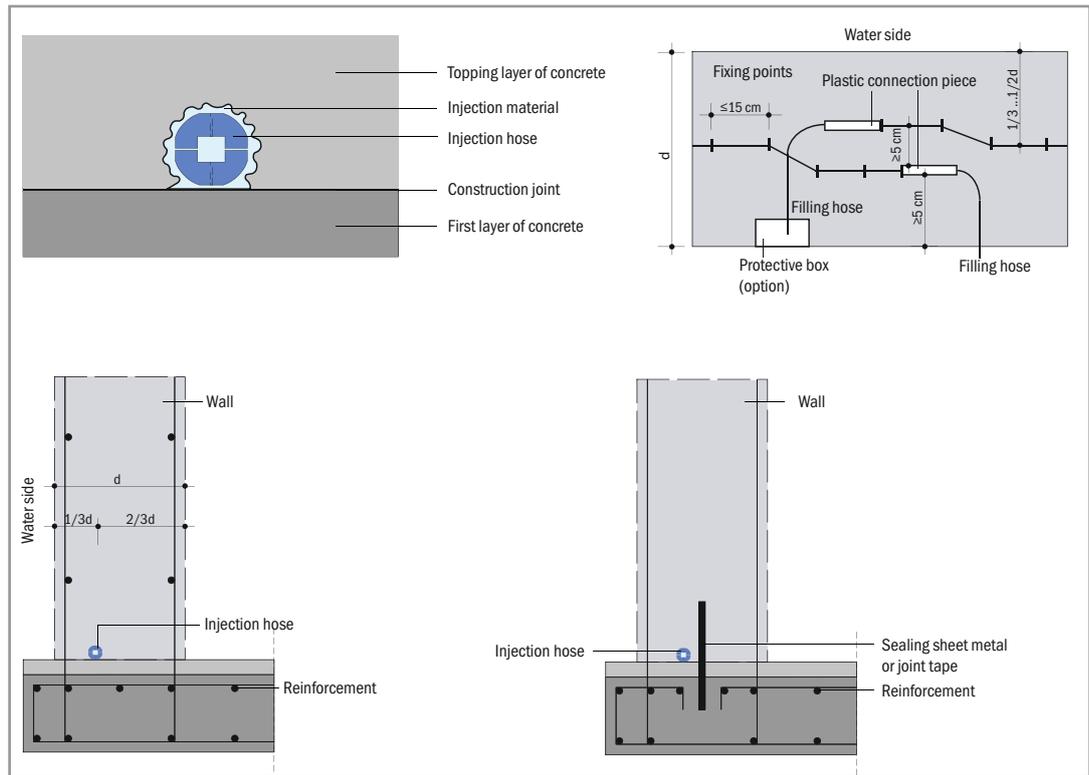
25172  
25170

## Example of application



# Application injection hoses D-1 & U-1

Order number



## Filling and venting system

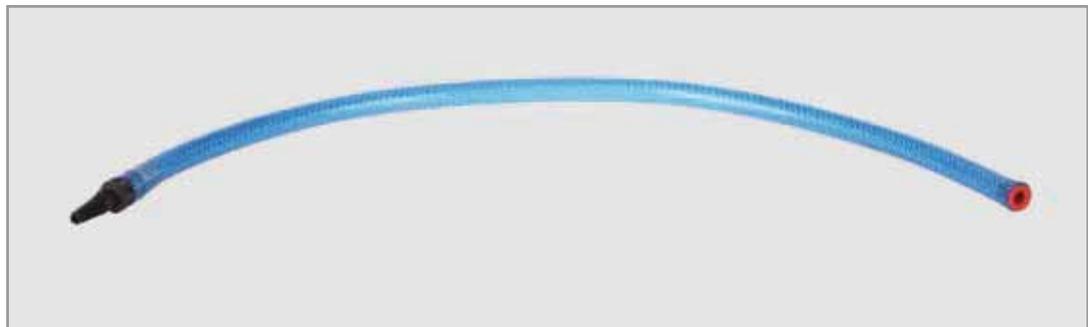
0.5 m hose  $\varnothing$  6 mm with conic screw thread and blind plug, mounted

34125

with red blind plug for venting side

34126

with yellow blind plug for filling side



## Connecting systems for resin

### Information

The information on the methods are recommendations and not binding.  
If required, please, contact us for professional advice.

Order number

	<p><b>Injection hose packer</b> with external thread M8, HP round head nipple M8 and wings, Ø 8 (shank) x 75 mm</p>	<p>31500</p>
	<p><b>Injection hose packer</b> with external thread M8, HP round head nipple M8, Ø 8 (shank) x 65 mm</p>	<p>31390</p>
	<p><b>Steel injection hose packer, width across 10 x 65 mm</b> galvanized, with internal thread M6, HP round head nipple M6, and tapered wood screw thread for injection hoses with internal thread, Ø 3.5 - 6 mm</p>	<p>20378</p>

## Connecting systems for mineral material

### For filling and venting system

	<p><b>Injection hose packer</b> with external thread M8 and wings, Ø 8 (shank) x 66 mm</p>	<p>31320</p>
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### For nail packers

	<p><b>Extension tube M8</b> with inside-Ø 3 mm; length = 35 mm</p>	<p>20862</p>
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### Accessory for connecting systems

	<p><b>Locking tappet</b> with internal thread M8</p>	<p>33020</p>
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# Installation kit for nail packers

Order number

34099

## Installation kit – nail packers

for 60 m injection hose, packed in a carton



### combined of

#### Injection hose D-1

reel with 60 m; outside  $\varnothing$  13 mm and internal  $\varnothing$  6 mm



#### 20 x universal nail packers

with internal thread M8, plug-in connection and 2 sleeves for nail packer holder; H = 55 mm

10 x with protective plug red for venting side

10 x with protective plug white for filling side



#### 500 x mounting clip $\varnothing$ 13 mm

with one bracket; 100 pcs. per packing unit,  
Dimensions: length = 45 mm, width = 20 mm, 1.5 mm thick

#### Note

7 mounting clips are necessary to fasten 1 m of injection hose.



#### 500 x drive-in plug

100 pcs. per packing unit,  $\varnothing$  5 x 30 mm



#### 2 x hammer drills

with SDS plus, spiral length 100 mm,  $\varnothing$  5 x 160 mm

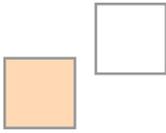


# Installation kit for filling & venting system

Order number

**Installation kit filling & venting system**  
for 100 m injection hose, packed in a carton

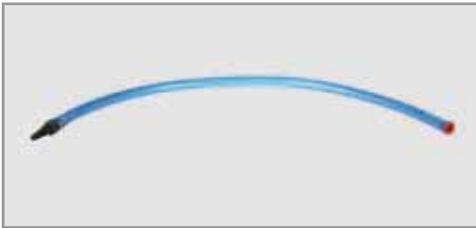
34098



combined of



**Injection hose U-1**  
reel with 100 m; with coating, outside  $\varnothing$  11 mm and  
internal  $\varnothing$  5 mm



**30 x filling and venting system**  
0.5 m hose  $\varnothing$  6 mm with conic screw thread and blind plug,  
mounted  
15 x with red blind plug for venting side  
15 x with yellow blind plug for filling side



**700 x mounting clip  $\varnothing$  13 mm**  
with one bracket; 100 pcs. per packing unit  
Dimensions: length = 45 mm, width = 20 mm, 1.5 mm thick

**Note**  
7 mounting clips are necessary to fasten 1 m of injection hose.



**700 x drive-in plug**  
100 pcs. per packing unit,  $\varnothing$  5 x 30 mm



**2 x hammer drills**  
with SDS plus, spiral length 100 mm,  $\varnothing$  5 x 160 mm



Injection technique

Mixing technique

Spraying technique

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