

# **schaummaXX®**

## **FILL REPAIR SYSTEM**

### **GLOBAL INNOVATION**



**MANUAL**



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## **schaummaXX: Your Partner for Sustainable Pipe Repairs**

Welcome to *schaummaXX*

As an expert in innovative pipe repair systems, *schaummaXX* offers a revolutionary solution with the *FILL REPAIR SYSTEM*: hard-to-reach pipe damages such as cracks, fractures, or missing sections can be repaired quickly and permanently. After repair, the affected areas can be additionally protected with Brush Coating or Spray Liner. Discover how our technology is transforming the pipe repair industry!

### **Our Technologies**

The *FILL REPAIR SYSTEM* enables precise and durable repairs. Combined with Brush Coating or Spray Liner, it ensures optimal protection and maximum longevity.

### **Made in Germany**

You can rely on all *schaummaXX* products – manufactured in Germany to the highest quality standards using state-of-the-art technology.

### **3D-Printed Accessories**

Our accessories are produced using cutting-edge 3D printing technology. Complex shapes and customized solutions are created precisely, sustainably, and in an environmentally friendly way.

### **Environmentally Friendly and Sustainable**

*SchaummaXX* is committed to using recyclable materials. Our accessories are made from biodegradable PolyTerra PLA filament, produced from sustainable raw materials. This minimizes environmental impact and simplifies disposal.

### **Our Commitment to the Environment**

PolyTerra PLA is fully recyclable and significantly reduces environmental impact — without compromising on performance.



### **1.1 Preface**

Thank you for choosing the *schaummaXX FILL REPAIR SYSTEM*. This state-of-the-art equipment excels in both design and construction. This operating manual serves as a training and reference document. Keep it accessible to operating personnel at all times. Store it in an easily reachable location near the equipment. Improvement suggestions and constructive criticism are welcome. For questions, contact your nearest sales partner.

### **1.2 Product Identification**

#### **1.2.1 Product Name**

*schaummaXX FILL REPAIR SYSTEM*

#### **1.2.2 Manufacturer**

Spraypoxy Oy  
Matkuntie 1  
05200 Rajamäki  
Finland

#### **1.2.3 Country of Origin**

Manufactured in Finland.

#### **1.2.4 Applicable Directives and Standards**

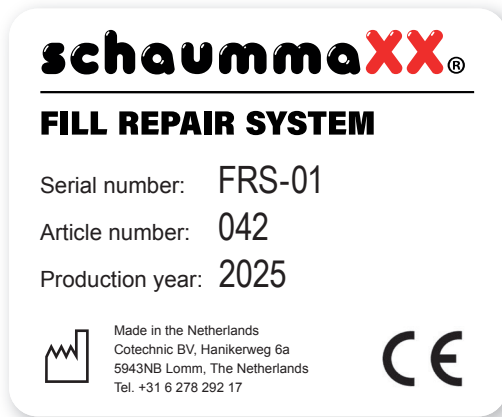
2006/42/EC: Machinery Directive  
EN ISO 8573-1: Compressed Air Quality Classes

#### **1.2.5 Copyright**

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### 1.3 Nameplate and CE Marking



### 1.4 Warranty Conditions

*schaummaXX* provides a 12-month warranty from delivery date for the *schaummaXX FILL REPAIR SYSTEM*. Wear parts are excluded from the warranty.

#### Modifications and Repairs

Modifications to the equipment are prohibited. Repairs and maintenance work may only be performed by the manufacturer.

#### Warranty Exclusions

All warranty and liability claims are voided by unauthorized modifications to the system. The manufacturer is not liable for resulting damages.





**Read This Manual Completely Before First Use!**

**2.1 Meaning of the General Safety Instructions**

The safety instructions in this chapter inform about residual hazards that remain even during intended use of the *schaummaXX FILL REPAIR SYSTEM*, as well as sudden dangers. To avoid damage to property, personal injury, and environmental harm, these instructions must be strictly observed by all personnel working with the equipment. You must read and understand this chapter.

**2.1.1 Special Safety Instructions**

At marked locations in this operating manual, situation-specific safety instructions are provided. These must be followed to prevent injuries and damage to property and the environment.

**2.1.2 Statutory Regulations**

In addition to the safety instructions in this manual, the currently applicable statutory accident prevention regulations apply. The prevention and environmental regulations of the country of use, as well as recognized technical safety rules, must be observed.

**2.1.3 Consequences of Non-Compliance**

Failure to observe the safety instructions may result in serious personal injury as well as significant property and environmental damage.

<b>WARNING</b>	
The manufacturer is not liable for damage resulting from non-compliance with the safety instructions.	



## **2.2 General Safety Regulations**

### **2.2.1 Basic Rule**

The *schaummaXX FILL REPAIR SYSTEM* may only be operated in technically perfect condition and in accordance with this operating manual. Knowledge of safety and hazard aspects is required. Improper operation poses risks to personnel, equipment, and the environment.

### **2.2.2 Technical Condition**

Malfunctions and defects – particularly those affecting safety – must be rectified immediately. Contact the manufacturer without delay. Take the equipment out of service until repairs are completed.

### **2.2.3 Intended Use**

The *schaummaXX FILL REPAIR SYSTEM* is designed for mixing and applying 2-component materials.

### **2.2.4 Improper Use**

- Operation without proper training
- Removal of warning labels
- Use near open flames or ignition sources
- Use of non-approved accessories or third-party parts

Improper use presents risk of life, injury, and property damage. The manufacturer assumes no liability. The operator bears sole responsibility.



### 2.2.5 Modifications

Modifications to the *schaummaXX FILL REPAIR SYSTEM* are strictly prohibited!

### 2.2.6 Accessories and Spare Parts

Only original accessories (*schaummaXX* cartridges, mixers, connectors, hoses) and spare parts may be used. Use of non-approved parts voids the warranty.

## 2.3 Responsibilities

### 2.3.1 Storage of Operating Manual

The operating manual must be kept constantly accessible and clearly marked for all operating personnel.

### 2.3.2 Manufacturer's Responsibilities

The manufacturer guarantees technically flawless delivery including warnings and operating manual.

### 2.3.3 Operator's Responsibilities

#### Training and Qualification

The operator ensures that only authorized personnel work on the *schaummaXX FILL REPAIR SYSTEM*. All operators – including occasional users – receive thorough instruction focusing on residual hazards and the safety instructions in this manual.

#### Hazard Warnings

The operator informs all employees about residual hazards and ensures that work is performed exclusively according to this operating manual. Required safety equipment must be provided.

#### Duty of Care

The operator maintains the equipment in perfect technical condition. In case of repair needs, the dealer/manufacturer must be informed immediately.



### 2.3.4 Operator's Reporting Obligation

The operator must immediately report to the manufacturer all hazards and risks not described in this operating manual. Manufacturer-ordered measures must be implemented mandatorily.

### 2.4 Hazard Areas

The hazard area includes the zone around the *schaummaXX FILL REPAIR SYSTEM* where persons may come into contact with dispensed material.

### 2.5 Safety Equipment

#### 2.5.1 Warning Notice

Explanation of symbols: Chapter 3 "Safety Information", pp. 9–10. Missing or damaged warning and instruction labels must be replaced immediately.



### 2.6 Personnel Requirements

#### 2.6.1 Occupational Safety Regulations

When operating the *schaummaXX FILL REPAIR SYSTEM*, local safety and accident prevention regulations must be observed.

#### 2.6.2 Operator Requirements

Operating personnel must be professionally trained and qualified for the task. The chapters "Safety Instructions" and "System Operation" must be read and understood.



### 3.1 Safety Symbols



**DANGER!**  
Risk of serious injury.



**DANGER!**  
Risk of crushing.

### 3.2 Personal Protective Equipment

When using the *schaummaXX FILL REPAIR SYSTEM*, always wear personal protective equipment: protective clothing and safety shoes.

#### Eye Protection

Wear safety goggles against filling material, resin, and dust.



#### Hand Protection

Wear resin-resistant gloves. Cover open wounds/skin irritations.



#### Respiratory Protection

Wear respiratory mask against resin dust/vapors (hazard: asthma, epoxy dermatitis).





#### Hearing Protection

Wear hearing protection when exposed to noise.







**3.3 Product-Specific Safety Instructions**

<b>WARNING</b>		<b>!</b>
	<p>The material and its vapors can cause serious health damage (injuries, burns, poisoning). Property damage in the surrounding area is possible.</p>	
	<p><b>Protective equipment for all persons:</b> During operation of the <i>schaummaXX FILL REPAIR SYSTEM</i>, operating personnel and bystanders must wear: Safety goggles, respiratory mask, hearing protection, hand protection, full-body protection.</p>	

**3.3.2 Hazards from Mechanical Effects**

<b>WARNING</b>		<b>!</b>
	<p><b>DANGER!</b> Risk of injury from cylinder/cap ejection!</p>	
	<p><b>Measures:</b> Never point the cylinder end of a <i>schaummaXX FILL REPAIR SYSTEM</i> cartridge at persons, animals, or objects. Never open the compressed air system (pneumatic mechanism)! Transport, store, and secure the equipment carefully.</p> <p><b>In case of fall:</b> Immediately return the equipment to the manufacturer for professional inspection and possible repair.</p>	

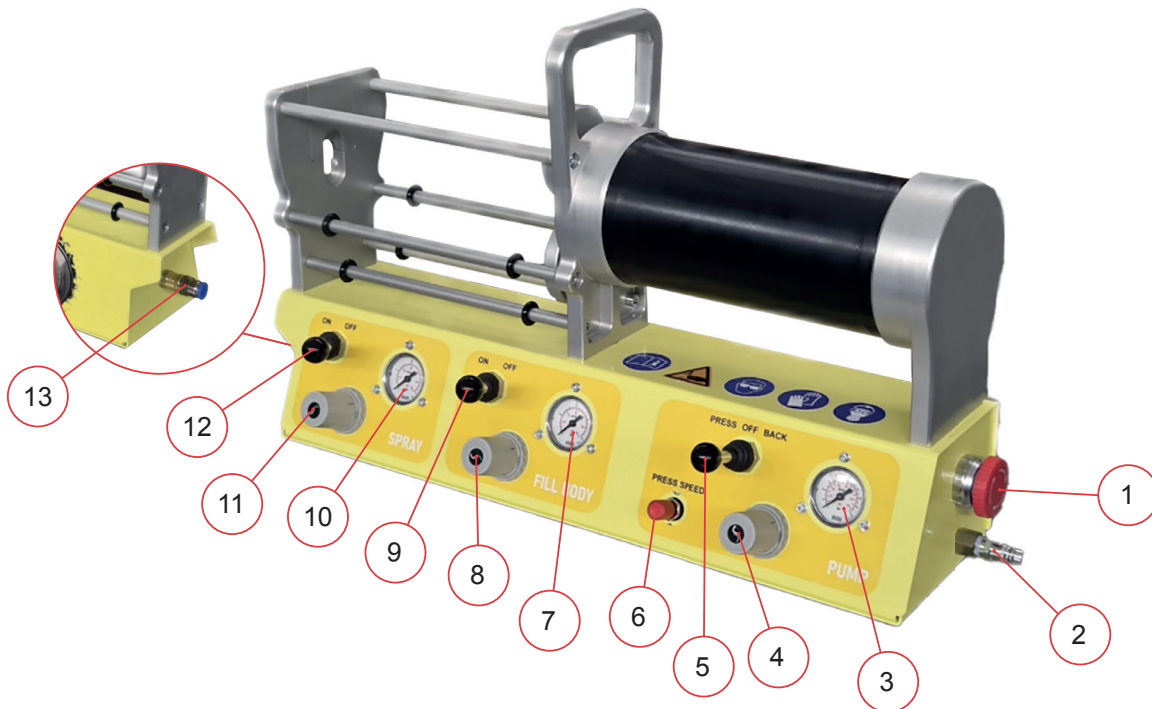
<b>WARNING</b>		<b>!</b>
	<p><b>CAUTION!</b> Risk of tripping and falling!</p>	
	<p><b>Caused by:</b> Compressed air hoses lying on the ground.</p> <p><b>Measure:</b> Lay hoses to prevent tripping or falling hazards for operating personnel and third parties.</p>	



**NOTE: Always follow manufacturer instructions when installing the machine and using accessories.**

Technical Specifications of the *schaummaXX FILL REPAIR SYSTEM*

- Spray coating capable
- Compatible with *schaummaXX* 1.8 kg (3 lbs)
- For sealing and filling pipe damages DN 32–300 up to 25 m length
- Emergency stop switch included
- Dimensions: 10 kg (27 lbs), L 600 mm (24"), H 410 mm (16"), W 240 mm (10")
- Maximum pressure: 7 bar
- *schaummaXX FILL REPAIR SYSTEM* 2.0 compatible with various resins



**Component Overview**

- |   |  |
|---|--|
| 1. Emergency stop                       | 7. Fill body pressure gauge                    |
| 2. Air inlet                            | 8. Fill body pressure regulator (max. 0.5 bar) |
| 3. Cartridge pressure gauge             | 9. Fill body air on/off                        |
| 4. Cartridge pressure regulator         | 10. Spray head pressure gauge                  |
| 5. Cartridge on/off switch              | 11. Spray head pressure regulator              |
| 6. Cartridge "Speed" pressure regulator | 12. Spray nozzle air on/off                    |
|   | 13. Fill body/spray nozzle air outlet          |



### 5.1 Required Parts for Cleaning

Ensure all necessary cleaning tools are available. These are available in the *schaummaXX* product range.

### 5.2 Pipe Cleaning Process

Before inserting the Fill Body, completely remove all deposits (rust, limescale, grease, residues) from the pipe. Thorough cleaning is a prerequisite for Fill Body adhesion. All cleaning utensils are available in the *schaummaXX* product range.

1. Thoroughly clean the pipe in the Fill Body insertion area.  
Use grinding chains for cast iron pipes.

#### **WARNING**



Never rotate grinding chains outside the pipe!

2. Use carbide brushes for plastic or concrete pipes.
3. Inspect the cleaned pipe with an inspection camera before Fill Body insertion.



**6.1 Filling with Resin**

**IMPORTANT!**

Always use the correct resin:

*schaummaXX* Standard Resin for vertical stacks and sewer lines DN70 and up.

*schaummaXX* "for small pipes and bends" for smaller lines (DN32–DN70), bends, minor damages, and spray application.

**WARNING**

Optimal temperature of filling resin: 25–29 °C (77–85 °F)  
 Above 29 °C: Cool the cartridge  
 At too low temperature: Resin flows slowly

**WARNING**

Heat cartridges exclusively in the heating box!  
 Maximum heating: 50 °C (122 °F)  
 Higher temperatures will damage the cartridge!



### DANGER!

H314 Causes severe skin burns and eye damage

H317 May trigger allergic skin reactions

H360F May impair fertility

H411 Toxic to aquatic life with long lasting effects



Safety Data Sheet included with first delivery.

### 6.2 Operation of the schaummaXX FILL REPAIR SYSTEM

#### WARNING



Always perform test filling before pipe filling (check mixing ratio)!  
Use water separator between compressor and system!

#### Operating Sequence:

1. Verify all switches are OFF
2. Set SPRAY switch to ON
3. Adjust spray head pressure to 0.5 bar
4. Set cartridge pressure to maximum 6 bar
5. Set cartridge press switch to PRESS – resin flows into hoses and application area

**During filling process:** Monitor camera screen, adjust pressure at fill button/pressure regulator.



### 6.3 Preparation of Hoses and Cartridges

#### Filling the filling hoses with resin

Connect cartridge to hose connector, check secure fit of screw connection, and insert into cartridge holder of the *schaummaXX FILL REPAIR SYSTEM*.

Always connect cartridges upright!





Connect 10-mm double couplers to both ends of the hose connector.  
Check secure hold.



Attach required hose length to the double coupler.  
Verify secure fit.



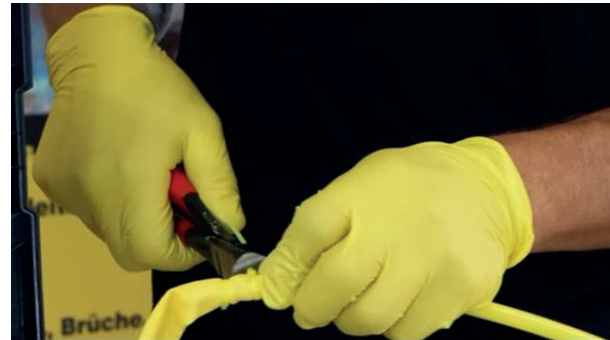
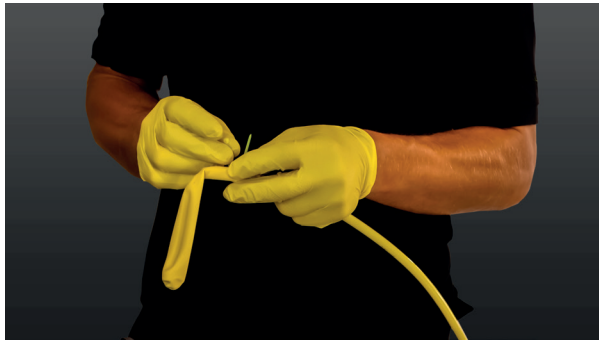


### 7.1 Required Parts for Damage Filling

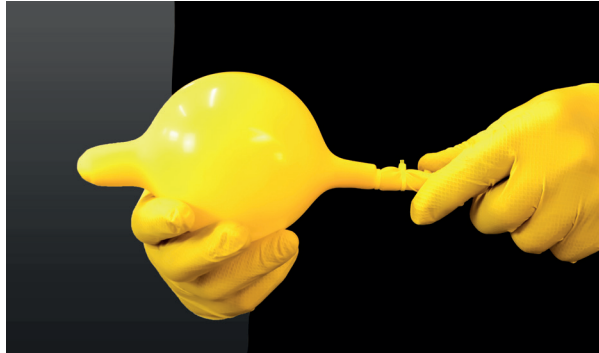
Ensure all materials are available. These are found in the *schaummaXX* product range.

#### Assembly sequence:

1. Slide closure cap over the air hose.



2. Slide Fill Body over closure cap and secure tightly with at least 2 cable ties.
3. Slide Fill Body over 10-mm hose and secure tightly with at least 2 cable ties.
4. Cut off excess cable tie ends with side cutters.



5. Check strength and tightness. Briefly inflate Fill Body and adjust if necessary.



6. Apply *schaummaXX* lubricant to Fill Body and insert into BodyCap.



7. Secure hose to camera using hose holder or fixing tape (depending on pipe diameter).
8. Push hose with Fill Body and BodyCap 10 cm below the damage.
9. Connect feed hose (A&B) with static mixer and insert into pipe above Fill Body.





10. Slowly inflate Fill Body to 0.2–0.3 bar until pipe is sealed.
11. In the next step, fill the pipe. Material should always be introduced up to 5 cm below the damaged area, **so the material has sufficient working space and seals the damage.**
12. After material introduction, withdraw static mixer from filling area. After approx. 1–2 minutes, release air and remove air hose.
13. Process pipe with milling robot. Remove excess foam, then apply coating.

### **For large damages/missing pipe sections:**

After sealing (step 10), moisten Fill Body with foam. Lubricate special Fill Body with lubricant, place over plug. Refill pipe. Apply pressure when material rises (1 cm clearance to pipe wall). Release air, remove Fill Body, process plug with milling robot/sanding paper.

**Optimal use:** Vertical stacks with missing pipe sections or unused branches.



### 7.2 Use of the Spray Nozzle

1. Seal pipe with Fill Body as described.
2. Connect spray nozzle to air hose and static mixer.
3. Position spray nozzle in front of Fill Body, start, and open air supply.
4. Open resin supply, slowly withdraw spray nozzle to damage location.
5. Close resin supply, continue running nozzle.
6. Check damage (sufficient material, complete seal). Open/close resin supply briefly if needed.
7. Close air supply, remove nozzle, remove excess foam.

### 7.3 Stopping the Filling Process

1. Stop resin supply first.
2. Then stop air supply (both switches to OFF).

**Note:** After stopping pressure, epoxy will continue to flow from the hose.



**8.1 Note**

All maintenance and repair work must be performed only by the manufacturer, authorized service centers, or qualified technical personnel. Never open the pneumatic drive or machine frame!

**For questions:** Contact [www.schaummaXX.com](http://www.schaummaXX.com) or your nearest sales outlet.

**8.2 Maintenance Instructions**

**Monthly:** Inject lubricating oil via compressed air connection.

**When contaminated:** Immediately remove epoxy resin from cartridge press piston rods using *schaummaXX* cleaning agent/cloths.

**Safety Instructions:**  
 Keep out of reach of children.  
 Read label before use.  
 If medical advice is needed, have product container or label at hand.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention

**schaummaXX®**

**FILL REPAIR SYSTEM**

**Properties:**  
 This cleaning wipe quickly and effortlessly removes even the toughest contamination from hands, tools, machines, and many water-resistant surfaces – without water, soap, or brush. It contains skin care substances and a fresh fragrance.

**Note:**  
 Do not use on porous surfaces such as untreated wood. It is recommended to test compatibility on an inconspicuous area for surface applications.

**Ingredients:**  
 AQUA, ISOPROPYL ALCOHOL, DIMETHYL GLUTARATE, C9-11 PARETH-8, DIMETHYL SUCCINATE, DIMETHYL ADIPATE, PEG-75 LANOLIN, DMDM HYDANTOIN, LIMONENE, IODOPROPYNYL BUTYL CARBAMATE

**HAND CLEANING WIPES**

**Removes foam, resins, adhesives, uncured polyurethane foams, tar, wax, lubricants, and more.**

- ✓ Dermatologically tested
- ✓ Suitable for all applications

**Application:**

- Remove lid from canister
- Remove seal (peel off foil)
- Carefully pull first wipe from canister
- Thread corner of wipe through lid opening and close canister with lid
- Pull wipe to perforation and tear off

**Storage:**  
 Shelf life: 36 months at min. +5°C and max. +25°C.  
 After opening: 12 months usable.  
 Store opened canister dry, cool, and closed.

**Contents: 100 Wipes approx. 20 x 30 cm**

Protect from frost.

[www.schaummaXX.com](http://www.schaummaXX.com)



## 9.1 Contact **schaummaXX!**

Discover how the *FILL REPAIR SYSTEM* makes your pipe repairs more efficient and sustainable.  
Contact us today!

### **schaummaXX – Innovation and Sustainability for Pipe Repairs**

Visit us:

[schaummaXX.com](http://schaummaXX.com)

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**Together we create a more sustainable future!**

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