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obduramus® Umwelttechnik GmbH

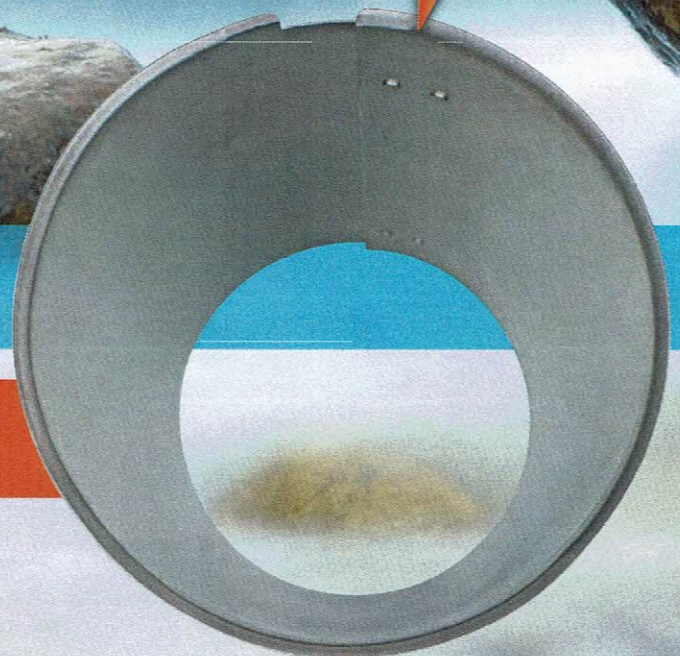
Repair systems for pipe connections

Cost-effective and effective repair
for leaks in pipe systems

*Absolutely unique
patented locking system
for repair sleeves !*

All sleeves come with standard swelling
tape for maximum waterproofing.

**NEW – CIRCUM MINI and CIRCUM LEM
with new, flat locking system.**



Absolutely unique patented locking system for repair sleeves !

- Einsatzgebiete**
- Liner connection
 - Radial cracks
 - Leaking sleeves
 - Sleeves • Offsets
 - Fragmentation
 - Missing wall parts
 - Root penetration

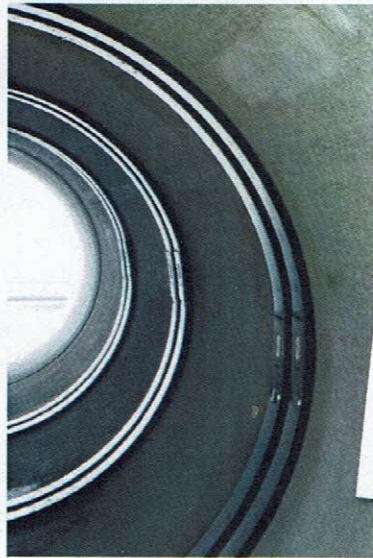


- Areas of application**
- Radial cracks
 - Leaking sleeves
 - Fragmentation
 - Root penetration
 - Liner connection
 - Missing wall parts



obduramus® CIRCUM EXPRESS

The **CIRCUM EXPRESS** method is based on the principle of compression sealing. The EPDM collar is pressed against the pipe wall by means of stainless steel clamping rings until sealing occurs.



IKT-tested for high-pressure flushing resistance.

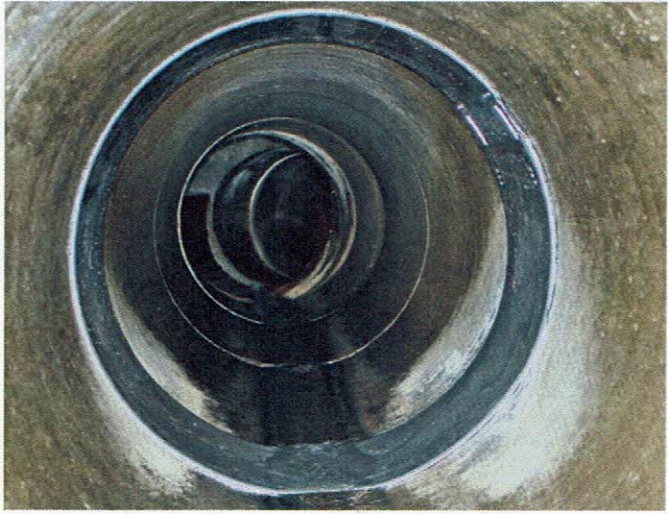


The special fastener ensures that the EPDM seal is permanently pressured. The tension of the clamping rings can be adjusted easily at any time. The advantage of the **CIRCUM EXPRESS** collar lies in its rapid installation time of just 10 minutes.

obduramus® CIRCUM MINI

CIRCUM MINI was developed for use in non-accessible areas. **CIRCUM MINI** consists of an elastic EPDM collar and a stainless steel sleeve made of the corresponding steel grade.

The method is based on the principle of compression sealing. The EPDM collar is pressed against the pipe wall by means of stainless steel clamping rings until sealing occurs. The special fastener ensures that the EPDM seal is tightly compressed. The tension of the sleeve can be increased at any time.



obduramus® CIRCUM EXPRESS

Nominal width	DN 800 mm to ≥ DN 3.000 mm
Sleeve width	250 mm
Sleeve height	10 mm
Sleeve material	EPDM
Width of clamping rings	60 mm
Clamping rings / valves	VA 1.4404

obduramus® CIRCUM MINI

Nominal width	DN 150 mm – DN 800 mm
Sleeve width	ab 360 mm
Sleeve height	5 mm
Sleeve material	EPDM
Width of clamping rings	from 400 mm
Clamping rings / valves	VA 1.4404

Areas of application

- Sleeves with offset
- Sleeves without sleeve gap
- Generally leaky sleeves
- Radial cracks
- Missing wall parts



Areas of application

- Linear connection
- Sealing liner pipe
- Liner end protection



obduramus® CIRCUM SWELL SWELL SLEEVE

CIRCUM SWELL was designed for repairing damage in walk-in pipe systems. Typical damage includes leaky sleeves and radial cracks.

The **CIRCUM SWELL** inner sleeve utilizes clamping rings to cover the expansion chambers, also protecting them from mechanical damage.



IKT-tested for high pressure flushing resistance.

obduramus® CIRCUM LEM LINER END SLEEVE

CIRCUM LEM has been developed to connect hose liners to pipes and to seal this connection, as well as to protect the liner ends, which are especially prone to damage from mechanical influences, e.g. high-pressure cleaning.

This makes **CIRCUM LEM** the optimal complement to **CIRCUM MINI**.

The method is based on the principle of compression sealing. The EPDM sleeve is pressed against the pipe wall by means of a stainless steel sleeve until sealing occurs.

The special fastener ensures that the EPDM seal is permanently pressured. The tension of the sleeve can be adjusted at any time.

*Absolutely unique
patented locking system
for repair sleeves !*

obduramus® CIRCUM SWELL

Nominal width	DN 800 mm to \geq DN 3.000 mm
Sleeve width	230 mm
Sleeve height	15 mm
Sleeve material	EPDM
Width of clamping rings	85 mm
Clamping rings / valves	VA 1.4404

obduramus® CIRCUM LEM

Nominal width	DN 150 mm – 400 mm
Sleeve width	230 mm
Sleeve height	5 mm
Sleeve material	EPDM
Width of clamping rings	250 mm
Clamping rings / valves	VA 1.4404



Advantages of repair systems from obduramus®:

- FAST INSTALLATION TIMES
- HIGH-QUALITY MATERIALS

obduramus® Repair systems for pipes and pipe connections

Obduramus Umwelttechnik GmbH has developed repair systems to quickly and effectively restore pipe connections and damage.

The refurbishment system includes seals utilizing expansion seal technology, as well as compression gaskets, which are extremely reliable and effective. They optimally adapt to the given conditions. The system is pipe-friendly, flexible and made of high-quality materials.

Our repair system is trademark-protected and patented. The obduramus system is designed in such a way that you can install the system yourself without having to buy expensive equipment.

Quick and effective renovation

Our systems are designed for diameters from 150 to over 3000 mm. Suitable for pipe joints without sleeve gap or up to 50 mm gap width. Pipe shoulders up to 50 mm can be bridged. Conically running sleeve gaps can also be easily sealed.

obduramus® Repair systems offer:

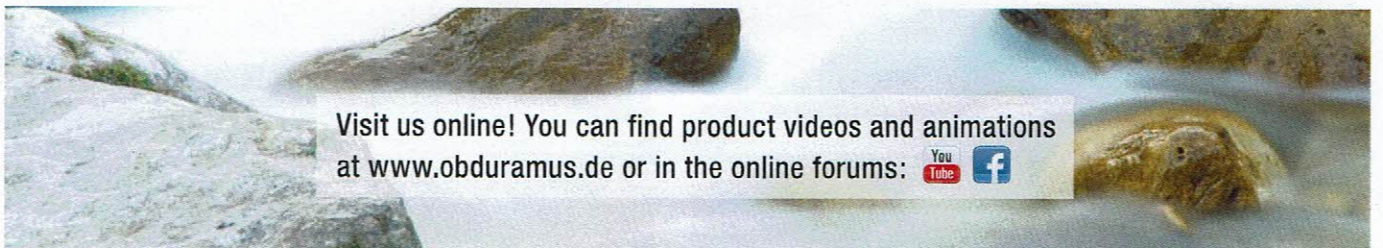
- Stable and flexible design – the characteristics of the sleeve remain intact
- Optimal adaptation to the surface – compensates for unevenness
- Fast and secure application
- Evenly distributed pressure on the pipe wall

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