HOW YOU BENEFIT FROM SpectraShield

Would you like to learn more about rehabilitation using the SpectraShield system as an employer? Take advantage of these options:

O FSB Bautechnik

Learn everything about the process and about the licensed technical specialists in your region who provide **SpectraShield**. FSB Bautechnik is the distributor for SpectraShield in Europe and therefore provides product quality assurance, engineering, and support.

O Licensed specialists

You can also connect directly with a specialist close to you who is licensed by FSB Bautechnik. He will be happy to provide you with advice, submit a professional offer, and complete the job with employees who are specially trained with **SpectraShield** and certified equipment. FSB Bautechnik and its licensed specialists are responsible for quality assurance. Third-party supervision by an independent authorised expert completes the comprehensive quality assurance system.

YOUR BENEFITS:

- O FSB-licensed specialists with specially trained staff.
- O Quality assurance by FSB Bautechnik.
- Sustainable rehabilitation.
- Indestructible patented material featuring DIBt approval.



- Cost-effective investment.
- O Long-term value preservation for your sewer system.

ABOUT FSB BAUTECHNIK

FSB Bautechnik possesses the European distribution rights for **SpectraShield**. It imports the system from the manufacturer and patent owner, CCI Spectrum Inc., from Jacksonville/USA. FSB is an integral component of **SpectraShield**'s worldwide rehabilitation network.

Services available from FSB Bautechnik:

- 1. Distribution of the necessary materials and certified equipment
- 2. Development of a comprehensive network of licensed specialists who use SpectraShield according to the original quality standards.
- 3. Training courses and qualification procedures that ensure the transfer of know-how to our licensed specialists.
- **4.** Implementation of an efficient quality assurance system.
- 5. Guaranteed availability of materials.
- **6.** Qualified engineering and support for solving challenges presented by construction conditions.
- 7. Research and development.

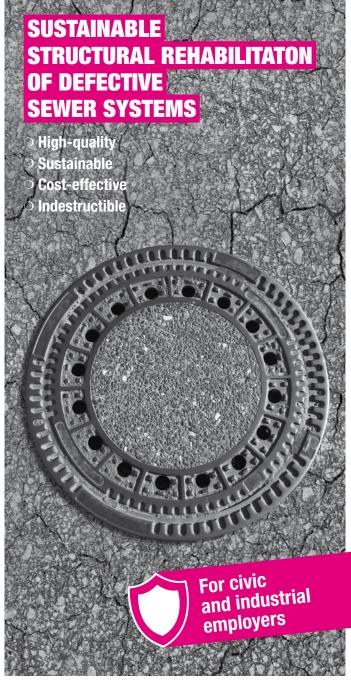
Detailed information is available at our website www.fsb-technik.de





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SEWER SYSTEM REHA-BILITATION BOTTLENECK

In European countries sewer systems have aged. In the majority of their thousands of km long sewer-network, there is a serious need for rehabilitation. Mainly the cities and communities themselves are responsible for this, whose duties include disposal of sewage water and whose capital assets often include sewer networks in the top position.

For this reason, decision makers like you at community and city works have a vital interest in maintaining these valuable assets for the future and efficiently and sustainably repairing damage. Since only a properly functioning sewer system is able to protect the community, the soil, and the groundwater against fouling, avoid stress on sewage treatment facilities and sewers due to penetration of groundwater, and prevent sewers from overflowing.

The **SpectraShield** system is the right alternative when it comes to cost-effective and sustainable sewer infrastructures. See for yourself.



VARIOUS REHABILITATION METHODS

When calling for bids involving rehabilitation methods, making a choice can be difficult. The most costly method is restoration using the open trench method. Besides this, there are mainly only three options for trenchless rehabilitation of sewer structures:

1. Mineral-based rehabilitation

Damaged shafts are coated with acid-resistant grout and completely rehabilitated. The average durable life is somewhere between five and maximum 15 years. Rehabilitation work takes up to 3 days*.

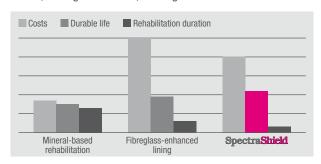
2. Fibreglass-enhanced lining

Resin-coated fibreglass/needle felt mats are applied to the surfaces to be rehabilitated and then hardened. The durable life of this process is good, though it is by far the most expensive. The rehabilitated work takes around one day*.

3. Rehabilitation with SpectraShield

The leading technology of the polyurea coating process is applied in a spray-on procedure. The clear advantages of this system include its implementation time and sustainability. 100 years of durable life in three hours of rehabilitation work* sounds good to you too, right?

The main area of application of **SpectraShield** is the rehabilitation of sewer structures such as inspection manhole, pump shafts, sewage treatment, settling and catch basins.



^{*} per standard inspection manhole featuring 2.50 m depth and 1.00 m diameter

HERE'S HOW SpectraShield WORKS

The four step application of the **SpectraShield** multi-layer polymer system is the perfect solution for problems like corrosion, infiltration, exfiltration, missing mortar joints and exposed rebar.

1. Preparation

High-pressure water blasting free the surface of the structure from dirt and accumulated materials to prepare it for the coating process.

2. Moisture barrier

Modified hybrid polyurea is simultaneously a moisture barrier and a holding primer, and it forms an extremely resistant surface as the inside-layer layer.

3. Surface

Gas-proof polyurethane foam fills all surface defects, eroded areas, cavities, pores, and joints and reprofiles the original emplacement.

4. Corrosion Barrier

The top-coat of modified hybrid polyuria forms the sustainable surface protection including unique resistance against chemical influences, temperatures, and mechanical stress.







