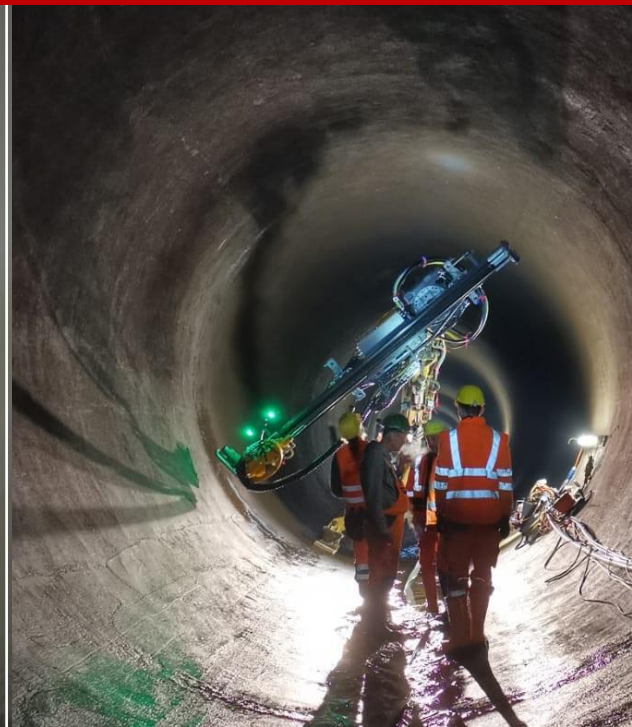


WATERPROOFING SOLUTIONS FOR HYDRAULIC STRUCTURES



renesco®
Passion | Technology | Trust





ABOUT US

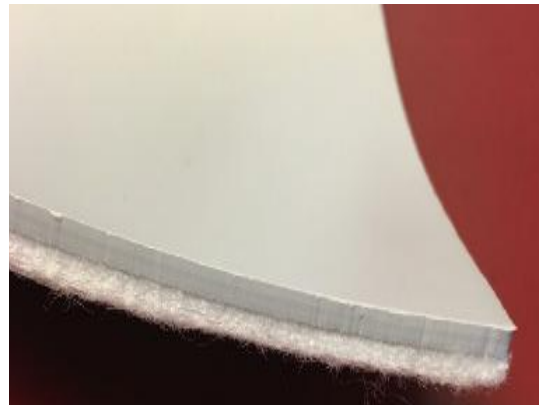
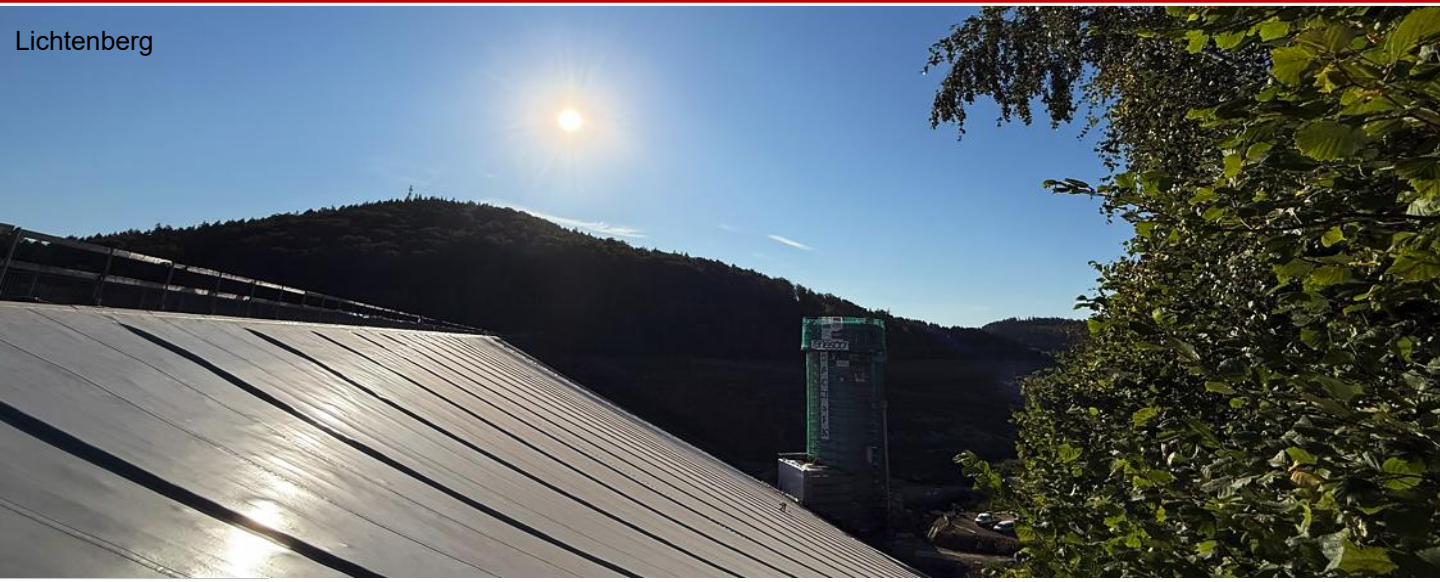
The Renesco Group is an internationally operating company specializing in waterproofing and grouting. It is committed to providing custom-made and practical solutions.

Founded in 1965, Renesco is one of the many subsidiaries of the Swiss-based Marti Group, an owner-managed family business with a presence both at home and abroad. Our range of services includes:

- Application of all types of polymer waterproofing sheets & coatings
- Joint sealing applications
- Grouting works using cementitious & chemical grouts
- Specialized drilling works
- Concrete repair works

Renesco GmbH is certified to ISO 9001, ISO 14001, OENORM S 2078 and the WHG (Water Resources Act).

Lichtenberg





WATERPROOFING TECHNOLOGY

We carry out waterproofing work in and on dams, canals, reservoirs, sprinkler systems, sewage treatment plants, water tanks, pressurized water tunnels, caverns and shafts, both in new builds and for the refurbishment of existing structures.

We work with materials and systems in accordance with current guidelines, e.g. EN 13361, EN 13362, DWA 512-T1 and -T2, BWK Bulletin No. 85, and ICOLD Bulletin No. 135.

- Installation and thermal welding of plastic waterproofing geomembranes, geocomposite and technical foils.
- Application of liquid coating systems and sprayed waterproofing.
- Installation of bituminous waterproofing membranes.
- Application of fabric-formed concrete mattress systems, that can be deployed underwater in flowing water.

We carry out strict quality checks throughout the construction process and offer our customers a system warranty.

Helsingborg

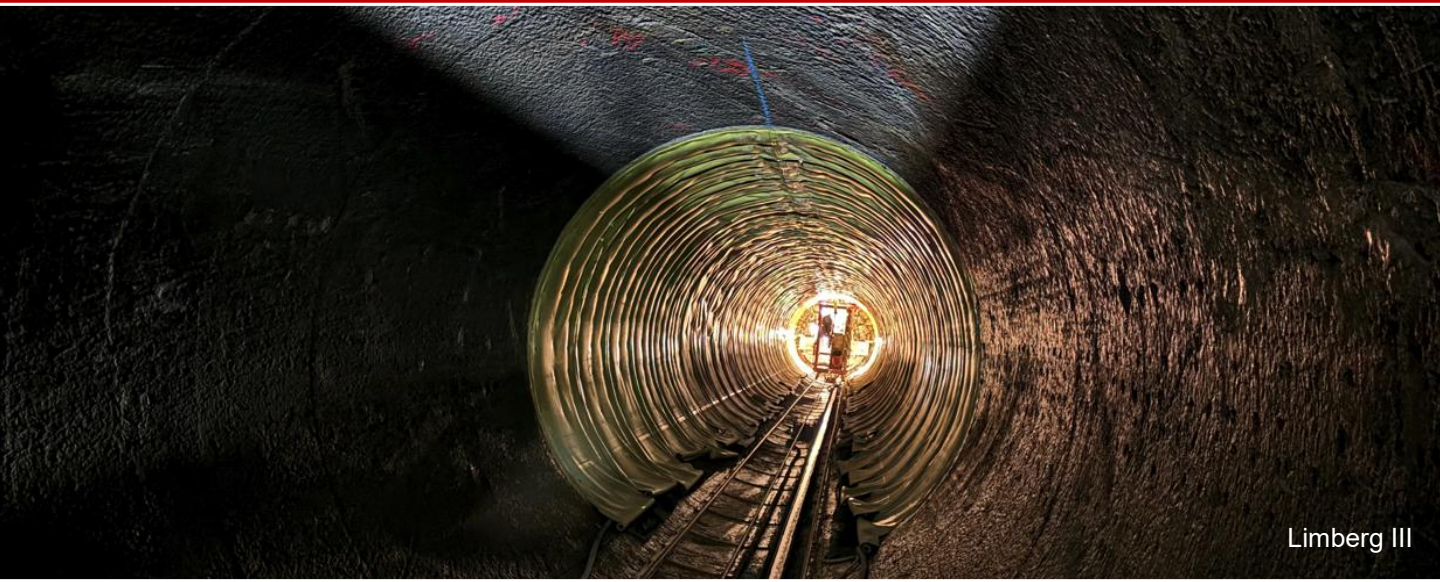


Avlopp



DRIP SHIELD

- Customized solution for climate stabilization and drip protection in underground structures and rock chambers.
- The exposed cloth consists of a reinforced polyester core with a PVC-coating offering a high tear and tensile strength. It has a fire class B-S2-d0 and is self-extinguishing.
- Suspended tunnel fabrics installed beneath the roof area to collect potential water drips from the crown, thus preventing from any leakage over the equipment and slabs, ideal for powerhouses, machine & transformer halls, or galleries.
- The system offers high flexibility in design and can be installed before, during, or after the construction of other structures.
- Installation is carried out with adjustable spacing to the rock surface using bolt & wire systems and forms the theoretical profile.
- All fabrics are stretched by PE ropes to avoid water pockets and to give an aesthetical visual appearance.
- With the presence of manholes that can be opened with zippers or Velcro it gives a personal access for visual inspection of the areas behind the membrane, even after installation.



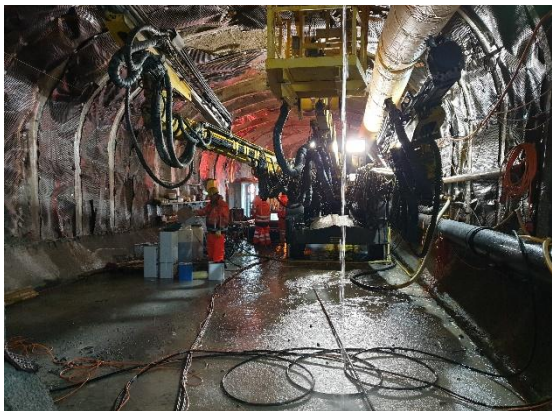
Limberg III

INJECTION TECHNOLOGY

- Cement and chemical grouting
- Compensation (fracture) grouting
- Dam foundation grouting
- Water Leak Mitigation
- Permeation/sealing grouting to prevent water ingress during the construction of tunnels and shafts
- Consolidation & sealing of permeable and unstable soils
- Curtain grouting & contact grouting beneath and within dams
- Passive pre-stressing of pressurized water tunnels and shafts



VAÐLAHEIÐARGÖNG



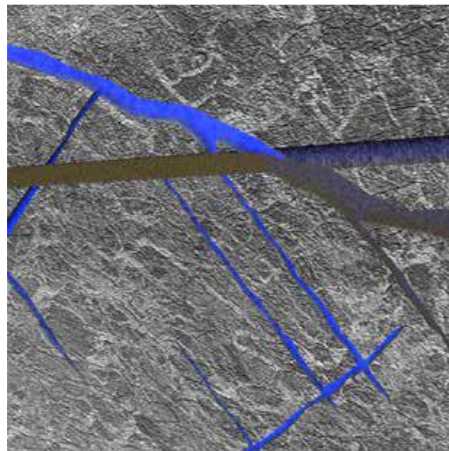
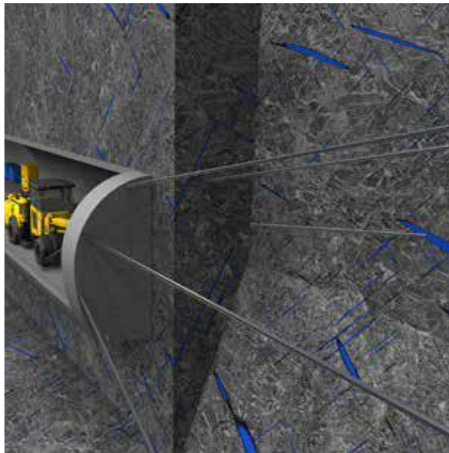
Uma Oya



HYBRID-INJECTION

Polyurethane resin is added to the cementitious grout as required. This method combines the effectiveness of chemical grouting, which is necessary where water is seeping in, with the cost-effectiveness of cementitious grouting.

- The base material consists of cement.
- If required, polyurethane resin is added automatically.
- Adjustment of the injection material whilst the injection is in progress.
- Waterproofing and consolidation in a single step.
- Detailed data recording and integration into the BIM model.



Linth-Limmern



DIGITAL DATA COLLECTION AND PROCESS MANAGEMENT

- Automatic control of the injection process.
- Data visualization and logging in a cloud-based system.
- Optimization of the injection process whilst the injection is in progress.
- Process management.





Lichtenberg

SELECTED REFERENCES FOR HYDRO

- Uma Oya Multipurpose Development Project, **Sri Lanka**
- Búrfell Extension Hydroelectrical Power Plant, **Iceland**
- Pump Storage Plant, Nant de Drance, **Switzerland**
- Pump Storage Plant, Linth-Limmern, **Switzerland**
- Pump Storage Plant, Limberg/Kaprun III, **Austria**
- Ritom Hydroelectric Power Station, **Switzerland**
- Hydropower plant Schluchseewerk, **Germany**
- White River Lower Pogues Run Tunnel, **USA**
- Chaglla Hydroelectric Power Station, **Peru**
- Dam Rehabilitation Lichtenberg, **Germany**
- Hydropower plant Waldeck-1, **Germany**
- Hydropower Rodundwerke I, **Austria**
- Themes Tideway Super Sewer, **UK**
- Helsingborg Water Tower, **Sweden**
- Canal de Rosport, **Luxembourg**
- NYC DEP C547A Shafts, **USA**

Berner Oberland



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