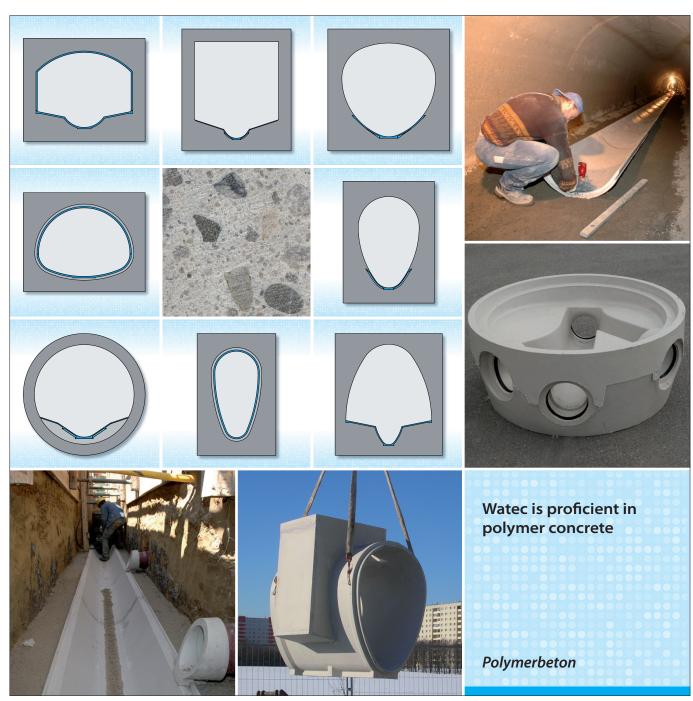


Polymer concrete

Experience and competence for sophisticated components in civil engineering



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Polymer concrete is a perfect material for civil engineering purposes: Its high strengths enable the construction of very slim components; its **chemical stability** makes it resistant to aggressive media. The non-porous and hydraulically smooth surface ensures that it is 100% corrosion-free. Constructions made of polymer concrete are characterised by longevity and ensure an investment's sustainability.

Even with rather small lot sizes, cast polymer concrete enables the **economic production** of individual and optimised components that are adapted to the specific purpose.

Due to its customer orientation, innovation potential and sound quality, Watec Polymer concrete stands out from its competitors.

Watec is proficient in polymer concrete.

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Today, Watec is able to refer to a broad range of innovative, wellestablished solutions of polymer concrete that are produced in the modern, high-performance production plant of Aco-Passavant in the town of Gunzgen, in the Swiss canton Solothurn.

Watec Polymer concrete basically consists of fire-dried quartz sand and gravel that are bound in a high-grade polyester resin system. The computer-assisted control of the mixing and casting plant makes it possible to individually optimise the formula and particle size for each component.

The casting method also makes it possible to realise complicated component geometries. The quick curing allows for flexibility with regard to customer requirements. Thus, a period of only 4 to 6 weeks is needed from the engineering drawing to the mounting of the initial elements!

The finished components of polymer concrete from Fritschi are extremely pressure- and bending-resistant, display great longitudinal strength, are dimensionally stable, corrosionproof, chemical-resistant, highly abrasion-resistant and have a nonporous and hydraulically smooth surface.

The excellent characteristics of the materials enable the construction of slim, homogenous constructional elements and positively influence the building site logistics, the laying performance and the lifetime of the building.

Polymer concrete can be excellently processed with conventional tools (cutting, drilling, grinding, etc.) and tied positively by means of a two-component epoxy adhesive.

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Quality

Production is subject to an ongoing external quality control; the entire company Aco Passavant AG is certified according to the ISO 9001:2000 standard which, thus, documents its excellent qualifications as a reliable cooperation partner for sophisticated projects.

Fields of application

Watec offers a **broad range** of well-established solutions for *civil* engineering: partial and full facings for the new development and the

reconstruction of accessible sewers, standard and custom-made manholes, split gutter systems for tunnel construction, special tanks, separator systems, etc.

However, this is by no means the entire field of application of polymer concrete: If a project makes highest demands and conventional materials encounter limiting factors, polymer concrete from Fritschi is often able to offer an efficient approach to a given problem - from idea to implementation!

Technical characteristics of **Watec Polymer concrete:**

Desity: $2.100 - 2.200 \text{ kg/m}^3$

Tensile strength: 20 - 25 N/mm² Pressure resistance: 100 – 120 N/mm² Emodulus: 20 - 25 kN/mm² Capillarity: 0,1 Vol % **De-icing salt WFT-L:** > 100% Resistance to chemicals: pH 2 – 13 Resistance to wear / Böhme Volume

loss, average value: 7 cm³/50 cm







Contact us at office@watec.at, we appreciate your interest!

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