Sewage Treatment Plant, Bottrop, Germany



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Reference data

- **Building activity**
  Concrete restoration
- **Object type**
  Clarification / bio-gas plants, sewage treatment
- **Object address**
  , 46238 Bottrop
- **Date / Completion**
  2013
- **Client**
  Emschergenossenschaft Kläranlage Bottrop
- **Architect**
  Ibb Althans & Hesselmann GbR - Technische Berater
- **Contractor**
  Peter Presch GmbH - Betoninstandsetzung
- **Viewing possible?**
  No

Description

The Emscher wastewater treatment plant is one of four central treatment plants at Emscher and is located in the Welheimer Mark district of Bottrop. The first sewage treatment plant was installed at this location in 1929, which mechanically purified all the river water.The current sewage treatment plant purifies up to 8,500 litres of water per second. The catchment area of the plant covers the river systems of the Boye, Schwarzbach, Lanferbach, Holz-, Resser- and Sellmannsbach. It covers 240 km² in the area of the cities of Bottrop, Bochum, Essen, Gelsenkirchen and Gladbeck.The four egg-shaped digesters of the Emscher sewage treatment plant, almost 50 meters high, can be seen from afar. The digestion towers look very futuristic, especially when illuminated at night with blue steel, which also serves as a landmark.

Problem

Considerable damage was visible at digester No. 4 as a result of a biogenic sulphuric acid attack (BSK attack) to the concrete. The structural condition analysis revealed advanced damage to the concrete surface. In some areas it showed indentations of up to 5 cm. The dome area was also to be given a new coating.

Product systems / sizes used

› **Betofix R4 SR**
Art. No. 1084



Impressions



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Further information can be found on:

https://www.remmers.co.uk/en_GB/referenceDetail/833