



Project report

Catch basin renovation at the RTG Rhein tank farm

Project description



Tank area 2: a concrete catch basin in accordance with the German Water Resources Act that contains six large storage tanks. The sealing of this catch basin needs to be repaired. Like the joints in the concrete surface around building components, gutters and pump foundations, the cracks in the floor and wall, which were due to settlement and other causes, must also be sealed. The connections between the storage tank foundations and catch basin must also be sealed according to the WHG (German Water Resources Act). Damaged edges and spalling in the catch basin will be re-profiled/repared with a concrete substitute approved for storage, filling and handling facilities for water-polluting substances.



PROJECT DETAILS

Property

RTG Rhein tank farm, tank area 2 catch basin

Owner

RTG Rhein-Tanklager-GmbH

Project scope

Sealing of 1,096 running metres of building component / connection joints and cracks

Project period

2013, 2014

Contractor

Baumgärtner & Walz GmbH

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System solution

EUROTEK TK joint tape WHG/LAU

EUROREPAIR PC 96 WHG

EUROTEK TK are high-performance joint tapes for building component and connection joints in traffic areas, with very high chemical resistance, especially for the chemical and petrochemical industries. The advantage of this joint tape system is that the joints can be completely bridged by the **EUROTEK TK joint tape WHG**. The range of tape widths allows the required movement absorption (expansion zone) to be adjusted to the appropriate requirements. Expensive removal of old, defective joint material may not be necessary, because the joint tape is placed over the existing joint. Our **EUROTEK TK WHG/LAU** joint tape sealing system is tested and approved by DIBt (German Institute of Building Technology). Re-profiling of the concrete damage was carried out using approved **EUROREPAIR PC 96 WHG** concrete substitute material.



SYSTEM ADVANTAGES

EUROTEK TK joint tape WHG/LAU

- Root-resistant
- Easily repaired and recyclable
- High chemical resistance
- High UV and weathering resistance
- Above average movement absorption
- tape widths from 80 – 300 mm
- Outstanding cold resilience
- High ageing resistance
- National technical approval Z-74.5-126

EUROREPAIR PC 96 WHG

- Chemical-resistant
- Liquid tight
- May be driven over by pneumatic and vulcanised tires
- Premixed
- Pre-pigmented
- Fast curing
- Same modulus of elasticity as roadway concrete
- Very high compressive strength
- Easy application
- For unreinforced concrete
- National technical approval Z-74.12-94

Core Capabilities



Areas subject to German Water Resources Act

Storage, filling and handling facilities for water-polluting substances Fuelling areas, de-icing areas, filling stations, refineries, tank farms, facilities for production, treatment and use of water-polluting substances



Wind power and agriculture

Areas for the storage and filling of liquid manure, manure, silage effluent, and solid dung, wind turbines, biogas plants, stable areas, horizontal silos



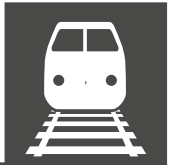
Traffic areas

Roads/ motorways, concrete barriers, parking garages, warehouse and logistics areas



Railway lines

trams, loading ramps



Air traffic areas

taxiways, runways, de-icing areas, fuelling areas



Industrial and trade areas

Storage areas, scrap yards, logistics areas, production areas, with areas used by forklifts



Parking areas

Parking garages, underground garages



Construction

Facades, balconies, joints, precast concrete apartment buildings

