SIKA AT WORK
BIOGAS PLANT TANKS, ITALY

CONCRETE PROTECTION: Sikagard®-7000 CR

BUILDING TRUST

PROTECTION OF BIOGAS PLANT WITH FOUR TANKS TREATED

PROJECT DESCRIPTION

Project name: Biogas plant with four tanks treated with the Sikagard®-7000 CR system
Location: Regalbuto, Italy

Newly-built 330 kW biogas plant with total surface area of about 7,850 m^2. The plant generates biogas starting with the treatment of olive pomace – a by-product of the olive oil extraction process comprising skin, pulp residue and pit fragments. The treatment aims to protect the concrete from biogenic sulfuric acid corrosion generated in anaerobic environments in the absence of oxygen and to ensure plant durability, limiting possible downtime for extraordinary maintenance that reduces production efficiency.

PROJECT REQUIREMENTS

Sikagard®-7000 CR and Sikagard®-6310 systems was used to protect the concrete from biogenic sulfuric acid corrosion generated in anaerobic environments in the absence of oxygen, and ensure plant durability, limiting possible downtime for extraordinary maintenance that reduces production efficiency.

SIKA SOLUTIONS

Realization of a Sikagard®-7000 CR waterproofing protection system for four anerobic digesters in a newly-built 330 kW biogas plant with a total surface area of about 2,850 m^2. Three pomace storage tanks at the same plant were treated with the protective Sikagard®-6310 waterproofing system with atotal surface area of approximately a further 5,000 m^2.

CUSTOMERS BENEFIT

Limiting possible downtime for extraordinary maintenance on the biogas plants that reduces production efficiency by waterproofing them and protecting them with the Sikagard®-7000 CR and Sikagard®-6310 systems.

PROJECT FACTS AT A GLANCE

Realization of a Sikagard®-7000 CR waterproofing protection system for four anerobic digesters in a newly-built 330 kW biogas plant with a total surface area of about 2,850 m^2. The plant generates biogas starting with the treatment of olive pomace, comprising the skin, pulp residues and pit fragments of olives. The treatment aims to protect the concrete from biogenic sulfuric acid corrosion generated in anaerobic environments in the absence of oxygen and to ensure plant durability, limiting possible downtime for extraordinary maintenance that reduces production efficiency. The treatment was carried out by independent expert applicator Polyflex Srl using heat application with a Graco XM 70 two-component sprayer. Three pomace storage tanks at the same plant were treated with the protective Sikagard®-6310 waterproofing system with a total surface area of approximately a further 5,000 m^2.

PROJECT PARTICIPANTS

Applicator/Contractor: Polyflex S.r.l.

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SIKA SERVICES AG
Tueffenwies 16
CH-8048 Zurich
Switzerland

Contact
Phone +41 58 436 40 40
www.sika.com

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