

Project:

Biogas plant with four tanks treated with the MasterSeal 7000 CR system

Location:

Regalbuto (EN)

BASF technologist:

Marco Nicolosi and F.Ilo SAS

BASF independent expert applicator:

Polyflex S.r.l

Total surface area treated:

about 7,850 m²

Systems used:

MasterSeal 7000 CR system

MasterSeal 6310 system

Biogas plant with four tanks treated with the MasterSeal 7000 CR system



Our reference in Regalbuto, Enna (Italy)

Background

Newly-built 330 kW biogas plant with total surface area of about 7,850 m². 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.

The challenge

Using the MasterSeal 7000 CR and MasterSeal 6310 systems, 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.

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Biogas plant with four tanks treated with the MasterSeal 7000 CR system



Our reference in Regalbuto, Enna (Italy)

Our proposal

Realization of a **MasterSeal 7000 CR** waterproofing protection system for four anaerobic digesters in a newly-built 330 kW biogas plant with a total surface area of about 2850 m². Three pomace storage tanks at the same plant were treated with the protective **MasterSeal 6310** waterproofing system with a total surface area of approximately a further 5000 m².

Advantages for the customer

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

Project recap

Realization of a **MasterSeal 7000 CR** waterproofing protection system for four anaerobic digesters in a newly-built 330 kW biogas plant with a total surface area of about 2850 m². 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 **MasterSeal 6310** waterproofing system with a total surface area of approximately a further 5000 m².

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