

Biogas Plant with Four Tanks Treated with the MasterSeal 7000 CR System

Newly-built 330 kW biogas plant in Regalbuto (in Province of Enna, Italy) consisted of four anaerobic digesters and it covers a total surface area of about 7,850 m² (Fig. 1). 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 intervention to protect the concrete from biogenic sulfuric acid corrosion has been realized by using the MasterSeal 7000 CR and

MasterSeal 6310 systems provided by BASF (Fig. 2).

The BASF's aim was to realize a MasterSeal 7000 CR waterproofing protection system for the four anaerobic digesters in the plant with a total surface area of about 2,850 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 5,000 m².

The treatment was carried out by independent expert applicator Polyflex Srl using heat application with a Graco XM 70 two-component sprayer (Fig. 3).



Figure 1: Newly-built 330 kW biogas plant in Regalbuto (in Province of Enna, Italy).



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PROJECT

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

LOCATION

Regalbuto (Enna, Italy)

BASF TECHNOLOGIST

Marco Nicolosi and F.llo 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

Figure 2: The intervention to protect the concrete from biogenic sulfuric acid corrosion has been realized by using the MasterSeal 7000 CR and MasterSeal 6310 systems provided by BASF.

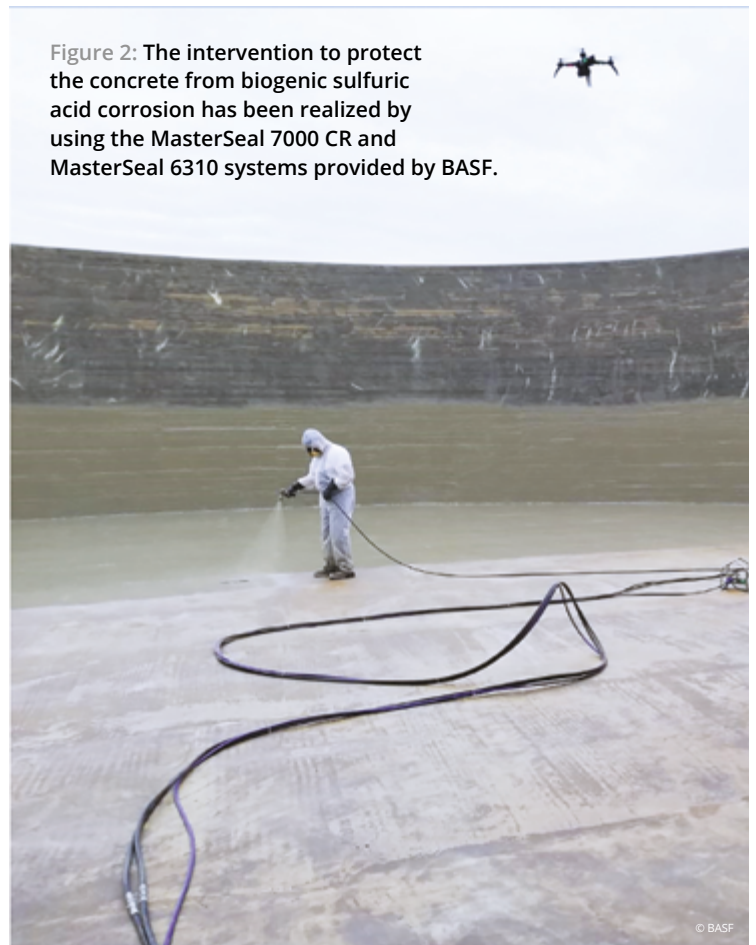


Figure 3: The treatment was carried out by independent expert applicator Polyflex Srl.

