

MICOROSA ENVIRONMENTAL REMEDIATION PROJECT
BRINDISI, PUGLIA , ITALY

Lining Systems - Capping

Problem

The Micorosa area, designated as a National Interest Site (SIN), posed significant environmental challenges due to the presence of an industrial waste landfill. The critical environmental levels in this SIN area necessitated a permanent security intervention. The project, authorized by the Italian Ministry of the Environment, aimed to address the persistent issues through capping and physical girdling using a plastic diaphragm.

Solution

The comprehensive solution involved Maccaferri's expertise and a strategic selection of materials to optimize the environmental remediation process. The application of MacDrain W as a drainage composite for infiltration water played a pivotal role. Placed on top of the impermeable lining, it formed an efficient underground drainage system. This system managed surface water, directing it to drainage pumps for removal from the landfill.

The use of MacLine GCL, MacLine RDH (Juta) and MacTex N ensured impermeability, stability, and anti-puncture protection, respectively. MacMat R contributed to environmental sustainability with its synthetic climbing geomats, while sandy/gravel material provided effective regularization.

The collaboration with Maccaferri's technical team allowed for meticulous planning, material optimization based on contract specifications, and continuous technical support. The successful completion of the Micorosa Environmental Remediation Project not only secured the SIN area but also addressed long-standing issues associated with the presence of the industrial waste landfill, contributing to the overall environmental safety and sustainability of the site.

Client: Municipality of Brindisi

Designer / Consultant: SOGESID

Contractor: Semataf Salvaguardia Ambientale VIPPELL

Products used (Qty.)

- Gcl	490,000.00 square meters
- Nonwoven Geotextiles	425,000.00 square meters
- Polymeric Geomembranes	490,000.00 square meters
- Drainage Geocomposites	482,000.00 square meters
- MacMat R	30,000.00 square meters

Date of construction: 01/2021 - 12/2022

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