

Project:
Service Reservoir Roof

Location:
Sussex

Owner/s:
South East Water

Applicator/Contractor:
J Browne

Market sector:
Clean Water Industry

Products used
MasterSeal P 660,
MasterSeal 689

Sales Contact:
Darren.priddle@mbcc-group.com

Technical Contact:
christopher.gallivan@mbcc-
group.com

Service Reservoir Roof, Sussex

Waterproofing of vaulted reinforced concrete roof



Our reference in Sussex (United Kingdom): Coombe Down Reservoir Roof

The background

This service reservoir in Sussex is a brick construction, with a vaulted reinforced concrete roof.

The challenge

Due to the remote location and difficult site access, a rapid-setting waterproof membrane with elastomeric properties was required, which could be backfilled immediately upon completion of the system.

The surface of the vaulted roof had many uneven connections to the brick structure and it was imperative that a seamless film build was achieved at these junctions

Head Office:
Master Builders Solutions UK Ltd
Swinton Hall Road
Swinton Manchester
M27 4EU, United Kingdom

T: +44 (0)161 727 6300

Redditch Office:
Master Builders Solutions UK Ltd
19 Broad Groll Road, Lakeside,
Redditch, Worcestershire,
B98 8YP, United Kingdom

T +44 (0)1527 512 255

Service Reservoir Roof, Sussex

Repair of vaulted reinforced concrete roof



Our reference in Sussex (United Kingdom): Coombe Down Reservoir Roof

Our solution

The concrete surface was prepared to remove all loose materials and debris. The concrete surface was primed with MasterTop P 660 rapid cure primer and broadcast with sand. After 24 hours MasterSeal M 689 was spray applied at a thickness of 1.5 mm.

The customer's benefit

- The spray application enabled all the contours and connections to be coated producing a seamless membrane.
- MasterSeal M 689 has a rapid set time of one minute, allowing the structure to be backfilled immediately upon completion of spraying.
- MasterSeal M 689 is a resilient, tough elastomeric membrane, which can withstand the impact of backfill without a protection board. This enabled the reservoir to be recommissioned on schedule.

Projects facts at a glance

- Reinforced concrete reservoir roof
- MasterTop P 600 rapid set polyurethane primer
- MasterSeal M 689 rapid setting, elastomeric polyurea membrane to waterproof the roof.

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