

## Case study: Waste Water Treatment Plant in Italy, BASF Construction Chemicals



Our reference in Cittadella (Italy):  
Waste Water Treatment Plant

### Project:

Waste Water Treatment Plant

### Location:

Cittadella (Italy)

### Project completed:

2017

### Owner/s:

ETRA S.p.A.

### Applicator/Contractor:

Lago S.a.s.

### Market sector:

Water Management Industry

### Products used:

MasterSeal M 689

MasterSeal P 385

MasterTop P 604

MasterTop F5

### The background

Etra S.p.A. is managing the potable and waste water network in 75 towns in the provinces of Vincenzo, Padua and Treviso, Veneto region in Italy. They decided to enlarge their drinking water treatment plant in Cittadella (Padua) and to build new facilities.

### Technical data (Typical values)

- Reaction time (sprayed): 5 – 7 s
- Shore D hardness: 42
- Elongation at break: 425% (DIN 53 504)
- Adhesion on concrete: > 3 N/mm<sup>2</sup>

### The challenge

Waterproofing and repair of shrinkage cracks appearing on the concrete of the plant's new facilities.

Despite the original plan not to coat the waterproof concrete, it became necessary with the occurrence of these damages to avoid leakages and further problems during the operation. Besides excellent crack bridging abilities, a solution that guaranteed a fast return to service was required.

## Waste water Treatment Plant in Italy

### Waterproofing to avoid leakage and concrete damages



Our reference in  
Cittadella (Italy):  
Drinking Water Treatment Plant

#### Our solution

After comparing various alternatives, the ideal solution was to apply an **hotspray polyurea waterproofing membrane**: MasterSeal M 689. MasterSeal M 689 was applied by means of a suitable two component heated, high pressure, proportioning spray equipment. The application was done by an expert company that could solve all technical requirements at the jobsite.

#### Project facts at a glance

- Total area repaired and waterproofed: 5000 m<sup>2</sup>.
- Minimized shut-down times due to the fast hardening properties of MasterSeal M 689.

#### The customer's benefit

- MasterSeal M 689 offers a high elasticity and crack bridging abilities, so that the damages in the structure could be repaired and leakages avoided.
- MasterSeal M 689 is a durable polyurea membrane with ultra-fast curing properties. It is fully trafficable after only 12 hours, which allowed a quick return to service.
- Application done by an experienced and certified applicator.