

**Project:**

Waterproofing of bridge channels Tresenda and Vago

**Location:**

Livigno (Italy)

**Project completed:**

2013

**Owner/s:**

A2A Multiutility Group

**Applicator/Contractor:**

Giacomelli (SO)

**Designer/Architect/Specifier:**

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**Market sector:**

Water Management Industry

**Products used & amounts:**

MasterSeal 6100 FX  
approx. 3000 Kg

## Bridge channels Tresenda and Vago

### Crack bridging in cold environments



Our reference in Livigno (Italy): Waterproofing of bridge channels Tresenda and Vago

#### The background

Livigno is a town and commune in the region of Lombardy, located in the Italian Alps, near the Swiss border.

The purpose of the application was to waterproof internally and externally the surface of bridge channels used for water transportation.

The main request in this application was to prevent water penetration into the structure reducing potential damages due to corrosion.

#### The challenge

The location of the channels, remote and at a high altitude, represented a big challenge for the application as the product chosen should maintain its waterproofing and protection capacities in this harsh environment

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# Bridge channels Tresenda and Vago

## Crack bridging in cold environments



Our reference in Livino (Italy): Waterproofing of bridge channels Tresenda and Vago

### Our solution

To ensure the elasticity even at very low temperatures and required the use of a specific product with polymers having a very low glass transition temperature.

Additionally the remote location and the difficulties of the application suggested the use of low consumption products that at the same time could reduce the wastage.

All these requirements were the key factors in the choice of MasterSeal 6100 FX for this application.

### The customer's benefit

- MasterSeal 6100 FX can be applied in moist (wet) conditions which were expected in the substrate of the channels.
- MasterSeal 6100 FX maintains its elasticity and crack bridging properties even at  $-10^{\circ}\text{C}$ . This crack bridging capacities also help the durability of the membrane
- MasterSeal 6100 FX as finishing protective layer protects concrete against carbonation and offers a concrete grey homogeneous color that avoids the need of an additional aesthetical paint.
- MasterSeal 6100 FX offers high waterproofing capacities even to water at pressures up to 5 bar.

### Projects facts at a glance

- A total of approx.  $1.600\text{ m}^2$  of waterproofed area
- MasterSeal 6100 FX applied at 2 mm thickness with 1,8 Kg of product per  $\text{m}^2$
- Quick return to service, only after 3 days of application
- The use of MasterSeal 6100 FX instead of other traditional cementitious two-component waterproofing membranes saved in this job approx. 2,2 tons of waterproofing material.

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Further information is available at:

[www.master-builders-solutions.com/it](http://www.master-builders-solutions.com/it)