



# SIKA AT WORK

## WATERPROOFING OF BRIDGE CHANNELS, TRESENDA AND VAGO, ITALY

CONCRETE PROTECTION: Sikalastic®-6100 FX

BUILDING TRUST



# CRACK BRIDGING IN COLD ENVIRONMENTS



## PROJECT DESCRIPTION

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.

Project name: Waterproofing of bridge channels Tresenda and Vago

Location: Livigno, Italy

Year: 2013

Market sector: Water Management Industry

## PROJECT REQUIREMENTS

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.

## SIKA SOLUTIONS

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 Sikalastic®-6100 FX for this application.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



## CUSTOMERS BENEFIT

- Sikalastic®-6100 FX can be applied in moist (wet) conditions which were expected in the substrate of the channels.
- Sikalastic®-6100 FX maintains its elasticity and crack bridging properties even at -10°C. This crack bridging capacities also help the durability of the membrane.
- Sikalastic®-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.
- Sikalastic®-6100 FX offers high waterproofing capacities even to water at pressures up to 5 bar.

## PROJECT FACTS AT A GLANCE

A total of approx. 1,600 m<sup>2</sup> of waterproofed area. Sikalastic®-6100 FX applied at 2 mm thickness with 1.8 kg of product per m<sup>2</sup>. Quick return to service, only after 3 days of application. The use of Sikalastic®-6100 FX instead of other traditional cementitious two-component waterproofing membranes saved in this job approx. 2.2 tons of waterproofing material.

## PROJECT PARTICIPANTS

Project Owner:

A2A Multiutility Group

Applicator/Contractor:

Giacomelli (SO)

## SIKA SERVICES AG

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