



# SIKA AT WORK

## MATTERHORN GLACIER PARADISE, SWITZERLAND

BONDED BIPV SYSTEM AT 3,883 METERS WITH Sikasil SG®-500

BUILDING TRUST



# MATTERHORN GLACIER PARADISE, SWITZERLAND



## PROJECT DESCRIPTION

At 3,883 meters above sea level in the Valais Alps, the Matterhorn Glacier Paradise tourist center offers a breathtaking view of 38 four-thousanders in the Swiss, Italian and French Alps. Located on the Klein Matterhorn, the tourist center attracts around half a million visitors from all over the world every year and serves as starting point for mountaineers wishing to explore the Zermatt ski area.

The project clients gave the utmost priority to environmental compatibility and energy efficiency of the construction. The center was built according to the latest ecological standards. The entire heating and ventilation system is solar-powered. To achieve this the south facade has been clad with a building integrated photovoltaic system that is the first of its kind to be installed at this altitude in Europe. Bonding the 108 specially developed high-performance ultra-weather-resistant PV modules calls for a superlative adhesive, capable of readily withstanding temperatures of  $-40^{\circ}\text{C}$  to  $+30^{\circ}\text{C}$  and wind speeds of up to 300 km/h. Sikasil® SG-500 met the rigorous requirements. Even during fierce stormy conditions or in intense sunlight, the structural adhesive Sikasil® SG-500 delivers long-lasting protection against the harsh environmental conditions and proves an enduring bond between the materials. In addition to a robust energy-efficient system, an extremely aesthetic BIPV solution was found, as well.

## SIKA SOLUTION

Sikasil® SG-500

## PROJECT FACTS

Project name:	Matterhorn Glacier Paradise tourist center
Location:	Zermatt, Switzerland
Project client:	Zermatt Bergbahnen AG
Planning:	Peak Architekten / Burri Müller Partner
Metal construction:	MLG Metall Planung AG
Module supplier:	3S Industries AG
Energy performance:	37,000 kWh p.a.
Completion:	Spring 2009

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