



SIKA AT WORK

THE BRENNER BASE TUNNEL

AUSTRIA - ITALY

THE WORLD'S LONGEST UNDERGROUND RAILWAY CONNECTION

CONCRETE: Sigit® , Sika® ViscoCrete® , SikaCem® , Sikadur® , SikaPump-Start® ,
Sika® MonoTop® , Sika®-PM 500 , AlivaFlexoDrain®

BUILDING TRUST



THE BRENNER BASE TUNNEL AUSTRIA - ITALY

By Oscar Marazzini, Sika Services AG; Simon Keller, Sika Services AG

PROJECT DESCRIPTION

The Brenner Base Tunnel is the heart of a 2,200 km long railway axis running between Berlin and Palermo and considered a priority project (the TEN-1 axis) by the European Union, since it is one of the key train routes through Europe. The only way to cross both the flatlands and the Alps with a high-speed line is to use a base tunnel between Innsbruck, Austria and Franzensfeste, Italy. At 64 km, the Brenner Base Tunnel will be the longest underground railway connection in the world, a pioneering work of engineering and it will markedly improve passenger travel and freight transport through the heart of Europe.

PROJECT REQUIREMENTS

Sprayed concrete must have

- Concrete: SpC 30/37 (28) II/J2 XC2 XF1 GK8 F59
- w/c-ratio: 0.50
- Open Time: 60 min
- Compressive Strength after 48 hrs: 10 MPa
- Compressive Strength after 28 d: C 30/37

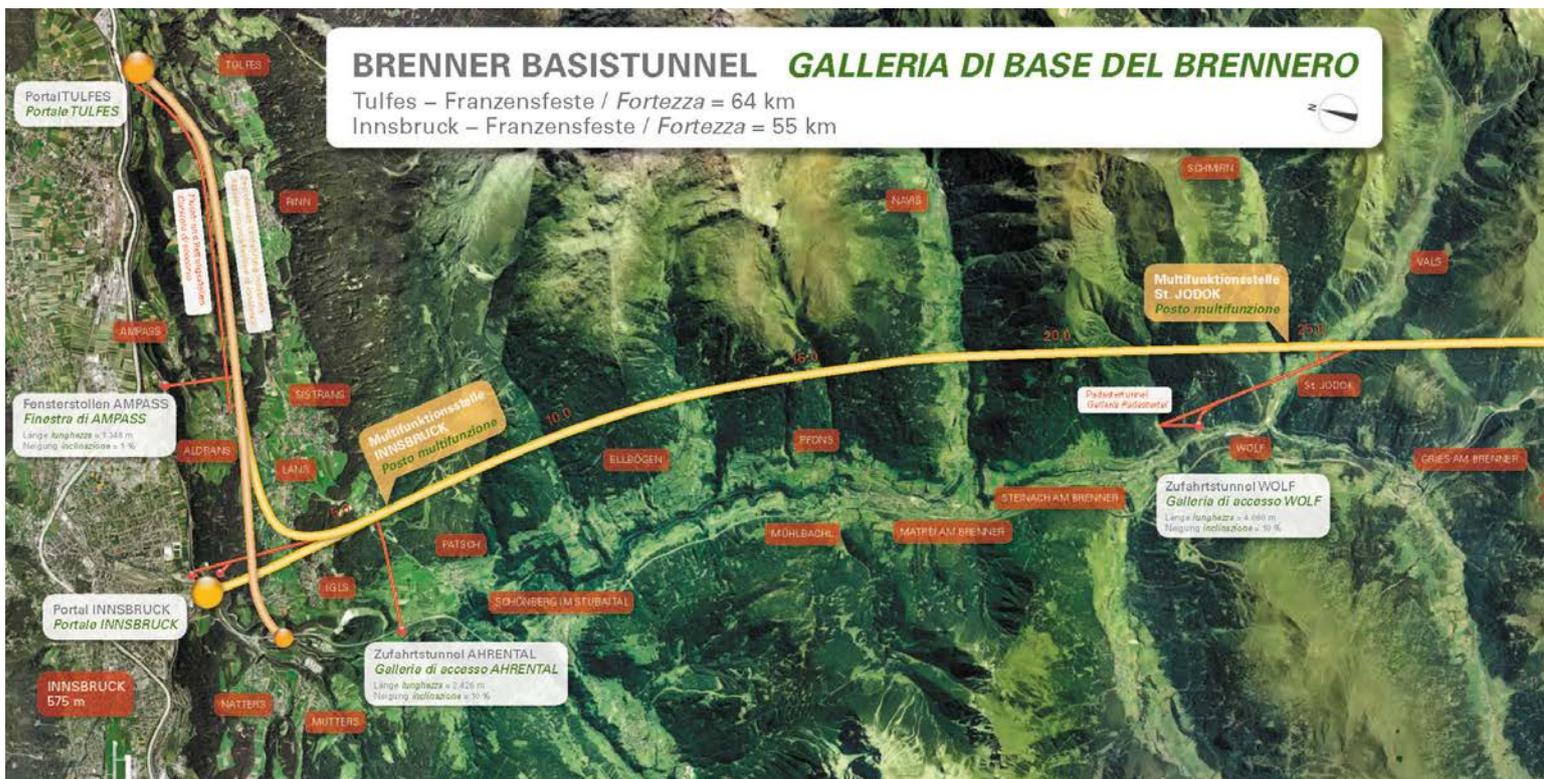
SIKA SOLUTION

Sika provides a comprehensive solution in sprayed concrete for the intermediate construction site in Mals. This includes not only the perfectly aligned Sika products listed below, but also customer support throughout the duration of the project including on-site personnel for experiments, tests and quality control.

SIKA PRODUCTS

Sigunit®-L53 AF
Sigunit®-LT
Sika® ViscoCrete® SC-305 BBT
Sika®-PM 500
SikaCem®-501
Sikadur®-31
SikaPump-Start® 1
Aliva FlexoDrain® W
Sika® MonoTop®-612 Blitz

Accelerator
 Accelerator
 Superplasticizer
 Spraying Equipment
 Fast Setting Cement
 Epoxy Resin
 Lubrication agent
 Drainage System
 Repair Mortar





BRENNER BASE TUNNEL, AUSTRIA



PROJECT PARTICIPANTS

Owner: Galleria di Base del Brennero – Brenner Basistunnel BBT SE
Contractor: 1. Lot: ATB (Pizzarotti / Bilfinger Berger / Alpine Meyer Reder Bau / Condotte)
2. Lot: Conorzio Brennero 2011 (PAC / Oberhosler / Implenia)
Concrete Producer: TransBrenner (WipptalerBau, Progress, Beton Eisack)

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



SIKA SERVICES AG
Tüffenwies 16
CH-8048 Zürich
Switzerland

Contact
Phone +41 58 436 40 40
www.sika.com

BUILDING TRUST

