



## Rehabilitation of Tunnel Blansko (CZ) Sheet Waterproofing

<b>Country</b>	Czech Republic
<b>Type</b>	Modernization and Revitalization
<b>Client</b>	Railway Administration, governmental organization
<b>Main Contractor</b>	AdaBla Joint Venture (OHL ŽS, FIRESTA - FIŠER, Tramo Rail)
<b>Execution of the work</b>	Renesco as
<b>Designer</b>	SUDOP BRNO, spol. s.r.o., PRODEX spol. s.r.o ,
<b>Construction Period</b>	2022

## Project Description

The railway corridor between Adamov and Blansko is a part of the Connecting Europe Facility programme (CEF) in the field of the trans-European transport infrastructure under the 2017 CEF Transport Blending call, located in South Moravia County. It integrates the modernization and revitalization of railway structures including the reconstruction of railway track structure, passengers' platforms, bridges and walls, remediation of rock notches, rehabilitation of existing single and double track tunnel tubes as well as accompanying technology in information, radio and camera system and high-current infrastructure.

The Joint Venture and Renesco have introduced a "new" rehabilitation system which is a combination of a "standard" 2 mm thick PVC-P sheet waterproofing membrane, thermo-joined/ welded - in combination with a "Scandinavian" system including anchor-bolts, reinforcement & shotcrete as inner liner, which is typical used for water & frost protection.

## Scope of Services

Installation of waterproofing (umbrella) system solution of membrane sheet protected by geotextile layer copying the perimeter of shotcrete primary lining.

Installation of anchor system and reinforcement mash, including the solution of accessories, as an inbuilt part of sprayed concrete as secondary final lining.

- 16'000m<sup>2</sup> of PVC sheet waterproofing, 2mm
- 16'000m<sup>2</sup> of geotextile, polypropylene non-woven, 800g/m<sup>2</sup>
- 16'000 drilled holes fulfilled with resin-based epoxy adhesive
- 16'000pcs. of BA anchors
- 700m of joint PVC profiles
- 16'000m<sup>2</sup> of reinforcement mash

## Milestones

Scheduled and completed within 60 days



1. Final waterproofing system including reinforcement
2. Sheet membrane, distance holder, reinforcement
3. Tunnel portal