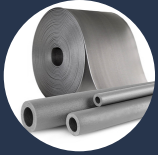


INSULATION FOR POLAND'S LONGEST TUNNEL

Collaboration between Thermaflex and PORR Group in the TS-26 Project



ThermaSmart PRO



Certificates



OBJECTIVES

Thermaflex was tasked to provide highly professional insulation solutions for the tunnel. One of the challenges was to provide a non-standard solution for the insulation of the hydrant pipeline, which should be protected against freezing, the insulation layer needs to be resistant to potential mechanical damage.

PROCESS

Thermaflex solutions are being used to provide frost protection for the fire protection system made of cast iron pipes. In total, 6000 meters of pipe insulation and 4200 square meters of ThermaSmart PRO sheet will be installed. The risk of freezing increases due to lack of water flow, so heating cables are installed on the pipes before installing the ThermaSmart PRO sheet and polyurethane slates. The key success factor was the ability to combine polyethylene (PE) and polyurethane (PU) material in a non-standard way to insulate the cast iron pipe, the total pipe insulation thickness could therefore be thicker than standard. Using the flexible ThermaSmart PRO sheet allowed the shape to match the external diameter of the pipes, its fire retardance property and low lambda value are perfect for this special task.

"The technical solution provided by Thermaflex meets all requirements. More importantly for such a complex project, on-time product delivery ensured that the contractor could carry out the installation work smoothly. In addition, Thermaflex provided training and support for the contractor directly on the tunnel construction site, enabling smooth installation to complete this part of the project on schedule." explains Wojciech Nowak, Deputy Contract Director for tunnel equipment, PORR S.A.

RESULTS

The successful implementation of Thermaflex's insulation solutions significantly contributed to the progress of the TS-26 tunnel project, with an expected completion by the first half of 2024. The robust insulation system not only ensured the protection of the pipeline network but also set a new standard for similar infrastructure projects in challenging environments.

"We are particularly pleased with the reliability of delivery, flexibility and excellent contact with Thermaflex representatives, which enabled the work to be carried out smoothly."

Wojciech Nowak

Deputy Contract Director for tunnel equipment, PORR S.A.

PROJECT LOCATION

📍 S3 Expressway, Poland

AT A GLANCE

- Duration: 8 Months

APPLICATIONS

- Frost protection

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