



Sanitex

CASE STUDY

Logistics

PROJECT OVERVIEW

Project: SANITEX ESTONIA logistics center
Customer: SANITEX ESTONIA OÜ
General Contractor: Astlanda Ehitus OÜ
Performed works: PrimX slab on ground
Usage: Warehouse, logistics center
Address: Graniidi tee 1, Rae küla, Rae vald
Casted: First building – 2015, extension in 2021
Area: 26 870 m² (289 226 sq ft), extension: 13 180 m² (141 864 sq ft)
Slab thickness: 160 mm (6,3 in) 150 mm (5,9 in), 80 mm (3,1 in)
CO₂ savings: 89 7120 kg (1 977 811 lbs)



CUSTOMER

SANITEX is the largest wholesale, distribution, and logistics company in Lithuania and Latvia and is active in Estonia and Poland.

Established in 1992, SANITEX currently collaborates with more than 500 producers and directly serves more than 32,000 customers in all Baltic States. Since 1997, SANITEX has operated with the PROMO Cash&Carry chain, where smaller shops, stalls, cafes, bars, and other businesses can buy everything they require for their daily needs.

SANITEX ESTONIA OÜ built its first warehouse facilities in 2015. The company expanded the facilities in 2021 with an extension totaling 40,050 m² (431,094 sq feet).

CHALLENGE

To ensure constant temperature in the storage areas of both buildings, the heating system will be built in the floor, which inevitably means extra challenges for the floor construction:

- What is the most efficient way to align the floor construction process with the heating system installation?
- What is the ideal machinery to ensure an efficient casting process (within the limitations imposed by the installation of heating contours)?
- What is the right mix design aligned to chosen machinery in order to ensure needed material workability.
- Does the mix design alignment to the chosen machinery ensure the necessary material workability?



Joint-less



Perfect for AGV



Low maintenance



Stays flat

Up to 70% less CO₂ emissions

Hygienic

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SOLUTION

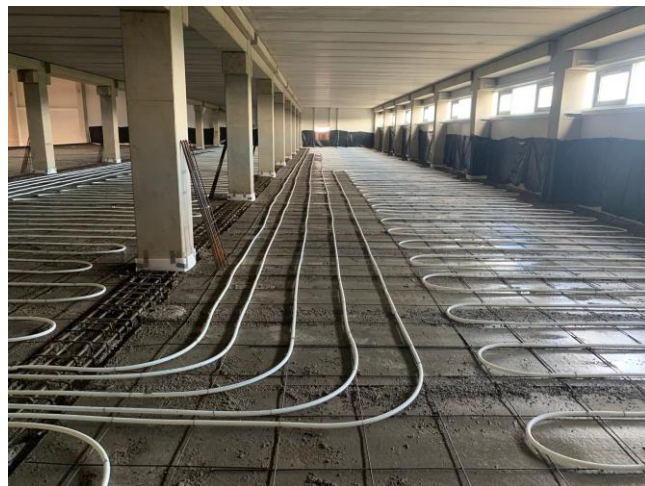
PrīmX concrete flooring was chosen as the best solution because of its jointless design, because it stays flat throughout its entire service life, incurs no curling at the joints, requires minimal maintenance, is the best fit for the current project specifications: floor production aligned with heating pipe installation work, faster construction, and reduced machinery costs.

However, there were some other important reasons from the production perspective:

- Experience and the capability of concrete engineering to adjust the concrete mix for optimal slab quality and workability with the chosen heavy machinery;
- Previous experience in optimizing floor production by synchronizing the heating system and floor casting processes to significantly speeding up the construction process and eliminate the risk of damaging the heating pipes.

Benefits of PrīmX floor:

- Lifetime flat floor ensures smooth operations
- Jointless design
- Faster installation, levelling with laser screed (better levelling and homogeneity)
- Low maintenance – PrīmX eliminates more than 90% of concrete slab maintenance issues, mostly caused by concrete drying shrinkage;
- Sustainable flooring solution – reduces carbon footprint by 897,120 kg (1,977,811 lbs) in the current project.



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