



# CASE STUDY

## Logistics



### PROJECT OVERVIEW

**Project:** Posten Norge and Bring Logistics Centre  
**Customer:** Posten Norge AS  
**General Contractor:** Hurre Norway AS  
**Product:** PrīmX floor  
**Project type:** fully automated warehouse  
**Address:** Nye Vakås vei 64, 1395 Hvalstad, Norway  
**Casted:** June, 2008  
**Area:** 70 000 m<sup>2</sup> (753 474 ft<sup>2</sup>)  
**Volume:** 7 700 m<sup>3</sup> (271 923 ft<sup>3</sup>)  
**Slab Thickness:** 110 mm (4.3 in)

### CUSTOMER

Founded in 1647, the Nordic postal and logistics group Posten Norge AS is owned by the Norwegian Ministry of Transport and Communications. Posten Norge develops and delivers integrated solutions in postal services, communications, and logistics with their two brands, Posten and Bring. Posten concentrates on the consumer market in Norway, while Bring is aimed at the corporate market in the Nordic region.

The Logistics Centre is part of a nationwide letter, package, and freight distribution network with sorting facilities including a mail terminal and offices.

### CHALLENGE

Efficiency and fast delivery are critical factors for all logistics services, and especially for the postal industry with its multiplicity of delivery types, raising customer expectations of the services it provides. Posten Norge AS logistics Centre was, therefore, designed as a fully automated distribution warehouse. The whole building, including the floors, was designed to support advanced automated systems that could maximize the speed of operations.



Joint-less



Perfect for AGV



Low maintenance



Stays flat



40% Less CO<sub>2</sub> emissions



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As robotic solutions are extremely precise, they demand a great deal from concrete floors - absolute flatness, no joints, and no movement are essential to ensure the necessary conditions for the full laser and camera/GPS operated automated forklifts to function with maximum efficiency (maneuverability, speed, etc.).

## SOLUTION

The PrīmX system, with a thickness of 110 mm, was the right fit for the project - a jointless floor with lifetime flatness and no slab movement.

Thanks to the absence of joints and the absolute flatness of the floor, automated systems can operate at maximum efficiency. No joints also means drastically reduced maintenance costs.

The project was visited for a slab inspection in 2017, after nine years of heavy duty usage. The slab was in great condition, fully operable, serving the automated warehouse needs - no detrimental cracking, curling or detrimental joint opening, and no need to grind the construction joints.

PrīmX high-performance system was able to reduce slab thickness. This reduced the amount of cement and steel required in construction and thus ensured a meaningful reduction in the carbon footprint - saving 1 575,000 kg of CO<sub>2</sub>.



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