CASE STUDY
Warehouse

PROJECT OVERVIEW

Project: Thule Hillerstorp
Customer: Thule
General Contractor: Bygga GWG
Engineering Company: BSV arkitekter & ingenjörer (SE)
Performed works: PrīmX slab on ground, SFRC slab on HDF, surface hardener, concrete polishing
Usage: R&D, warehouse, factory, offices
Address: Hillerstorp, Sweden
Casted: May 2020 (2 weeks)
Area: 4,500 m^2 R&D and warehouse, 3,200 m^2 offices (45,208 and 34,444 sq ft)
Slab thickness: 100 mm, 70 mm (4”, 2”)
CO_2 savings: 62,100 kg (136,907 lbs)

CUSTOMER

Thule Group offers roof boxes and carriers for transporting cycles, tents mounted on car roofs, bike trailers, strollers, child bike seats, and different kinds of luggage, bags, and backpacks.

Thule Group sells in 140 markets and has about 2,300 employees at nine production facilities and 35 sales offices. The group is building new workspace and facilities to make room for its expanded global development and test center. Today, the company’s site in Hillerstorp is still a significant hub for the business. The majority of global product development and the company’s global test center are located here along with roof-rack production for the entire world.

CHALLENGE

The client had the following requirements for the concrete floor: a stable, stiff, crack- and curl-free floor that stays flat in the long term. Furthermore, special requirements included a defined floor surface and visual aesthetics (i.e., the floor must be polished, shiny, and easy to maintain). The other meaningful requirement was the construction technology used must be sustainable.

The requirements called for wide ranging expertise from the Primekss professionals: optimal flooring design to fulfill structural and exploitation requirements and demands for sustainability.

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SOLUTION

The PrīmX self-stressing steel fiber reinforced concrete technology slab with a thickness of 100 mm and 70 mm, was the right fit for the project. The jointless flooring design solution was the perfect match for the structural requirements.

The no joints specification allows for drastically reduced maintenance costs.

The special Primekss Micro Terrazzo floor polishing treatment system was used to achieve the desired aesthetics. Thule chose this solution based on previous references in other projects. PrīmX µ Terazzo was the best fit as it produces a shiny, bright surface, that's easy to clean, easy to maintain, meets all hygiene norms, and yet doesn't have the usual problems associated with polymer coatings like epoxies – peeling off, chipping and mediocre abrasion resistance. PrīmX µ Terazzo uses advanced surface diamond polishing techniques to achieve the perfect surface, further chemically hardened and sealed. As a result, the floor surface is durable, abrasion resistant and looks shiny and beautiful.

The PrīmX technology optimized the design – thinner slab construction resulted in a significant reduction in the carbon footprint of approximately 40%.

The project casting process took 2 weeks.

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