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Grande Prairie (Alberta, Canada) GRANDE PRAIRIE HOSPITAL

A CUTTING-EDGE FACILITY DEVOTED TO PROVIDING PRIMARY HEALTHCARE AND CANCER CARE

As mentioned on Dialog design studio's website, the Grande Prairie Regional Hospital is a green field replacement regional hospital that serves immediate residents of Grande Prairie, and provides support care for Northern Alberta, North Eastern British Columbia and North Western Saskatchewan (Canada). The project provides a wide variety of healthcare services including in-patient units with a 240 total bed capacity, outpatient ambulatory care, emergency, diagnostics, obstetrics, surgery, pediatrics, acute geriatrics, mental health and intensive care. It also provides cancer care as part of the Alberta Cancer Corridor Initiative, so that patients undergoing chemotherapy or radiation do not have to travel to Edmonton, about 450 km faraway. The complex covers a total surface area of 5,878 m². The design of this new complex is

unique in how it respects site opportunities, while providing abundant natural light in patient rooms and access to courtyards and gardens. "The design is beautiful, and the functionality of the rooms is so well considered" said David Ponich, Director of Capital Management, North Zone-Alberta Health Services.

Specific solutions for different coverings

After hiring a new primary contractor, the provincial government of Alberta overcame delays and cost over-runs to complete this new regional hospital and cancer care center.

Beginning in 2018, Mapei products helped the new installers complete unfinished work in various areas: 2,450 m² of resin flooring for the ambulance bay and basement, 9,290

Problems and solutions

Mapei systems provided the right solution for the installation of different types of floorings in the hospital: resin flooring were laid in the ambulance bays and basement; PVC floorings were installed in corridors and patient-care rooms; large-size ceramic tiles were bonded on stairs, floors and walls in the entrance and other areas of the complex.

Mapei was able to offer innovative, safe and easy-to-use system for each type of intervention.



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m² of resilient flooring, 8,360 m² of large-size ceramic tile installation for walls and floors, as well as waterproofing substrates in select areas.

Solutions for substrate preparation and resin floors

The concrete substrates of several areas in the basement were treated

with PRIMER L acrylic latex primer and levelled with ULTRAPLAN M20 PLUS, high-strength, self-levelling, cement-based underlayment. Resin floors were completed in the basement by using MAPEFLOOR I 302 SL as a primer and then again as an epoxy resin basecoat, followed by the application of MAPEFLOOR FINISH 54 W/S to provide a semi-gloss polyurethane aliphatic topcoat.

In the ambulance bay, the substrate was treated with PRIMER SN, before applying MAPEFLOOR PU 400, a polyurethane basecoat specifically designed for use as a waterproofing membrane, and MAPEFLOOR FINISH 450 aliphatic polyurethane topcoat.

Floors in phase two of the project were levelled using PRIMER L and ULTRAPLAN M20 PLUS. Coverings will be installed later on.

Installing PVC floors

PVC floorings for corridors and patient-care rooms were installed using ULTRABOND ECO 360 high-performance adhesive with a low emission level of volatile organic compounds (VOC). The adhesive is manufactured and distributed in Canada by Mapei Inc and has been designed specifically for installing homogeneous and heterogeneous solid vinyl flooring. With its strong, durable, moisture-resistant and alkali-resistant bond, it is ideal for commercial and institutional applications.

ULTRABOND ECO 360 has an excel-

lent open time, develops strength quickly, performs well under rolling loads and resists indentation. Its low volatile organic compounds content makes it ideal for use in hospitals and medical centers. ULTRABOND G21 adhesive, which is also manufactured and distributed on the Canadian market by Mapei Inc., was used in areas where the substrate required a more challenging bond.

Bonding large-size ceramic tiles

ULTRAFLEX LFT was used for installing large-size ceramic tiles on floors, while the walls' large-size tiles required the use of MAPEI ULTRALITE MORTAR. Contractors used KERAPOXY CQ epoxy grout for all the tile joints. All the above-mentioned products, except for KERAPOXY CQ, are manufactured and distributed in Canada by Mapei Inc.

4. The Grande Prairie Hospital's inviting main entrance showcases the large-size ceramic tiles installed using Mapei systems for tile and stone installation.



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- 1. Applying ULTRAPLAN M20 PLUS self-leveling compound in phase two of the complex to level substrates.
- 2. The resin floors in the basement are made up of a main coat of MAPEFLOOR I 302 SL and a protective coat of MAPEFLOOR FINISH 54 W/S aliphatic polyurethane finish.
- 3. The large-size ceramic tiles were installed on the stairs with MAPEI ULTRALITE MORTAR PRO.



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TECHNICAL DATA

Grande Prairie Hospital Grande Prairie (Alberta, Canada)

Period of construction: 2011-2020

Period of the Mapei intervention: 2019-2020

Owner: Alberta Health Services

Design: Dialog

Contractor: Clark Builders

Mapei coordinators:

Brent Johnsen and Trevor Vermeulen, Mapei Inc. (Canada)

Photos: Dialog

MAPEI PRODUCTS

Substrate preparation: Mapecem Quickpatch*, Mapefloor PU 400*, Ultraplan M20 Plus*, Mapefloor Finish 54 W/S*,

Mapelastic AquaDefense, Planibond EBA*, Primer L*, Primer SN

Installation of ceramic tiles: MAPEI Ultralite™ Mortar*, MAPEI Ultralite Mortar Pro*, Ultraflex LFT*
Laying resin floors: Mapefloor Finish 450*, Mapefloor I 302 SL
Installing PVC floors:

Ultrabond ECO 360*, Ultrabond G21*
Grouting joints: Kerapoxy CQ

*These products are manufactured and distributed on the Canadian market by Mapei Inc. (Canada)

For further information on products see mapei.com