

Project Profile - Civil Engineering & Infrastructure



PROJECT

Espoo Motor Centre, Finland

SUMMARY

Protection of garage and vehicle repair floors totalling 1,100m²

PRODUCTS

Cemprotec E-Floor

CLIENT

YIT Construction / Etera Mutual
Pension Insurance Company

COATING CONTRACTOR

SPT Painting Oy

DISTRIBUTOR

PiiMat Oy

BACKGROUND ►

Espoo Motor Centre is a new concept developed by Finnish contractor YIT Construction. Espoo is Finland's second largest city and YIT Construction developed this brand new complex beside the primary motorway coming out of Espoo. The Motor Centre houses a total of eight automotive firms specialising in vehicle repairs, accident damage, tyre replacement and windscreen repairs.

Harry Lampinen is one such company within the Motor Centre, the leading body shop vehicle repair operator in Finland which works on behalf of all Finnish insurance companies. The idea of the Motor Centre complex is that motorists will deal with their emergency and routine vehicle repair and maintenance on their way out of the city. YIT Construction is developing similar Motor Centres in several other cities around Finland.

THE SOLUTION ►

YIT Construction were seeking a durable, hard-wearing floor coating system for application to the garage and vehicle repair floors within Espoo Motor Centre. Due to the presence of oils, petrol, diesel and other substances such as de-icing salts, it was important that the chosen flooring system exhibited excellent chemical resistance and was also both impact and abrasion resistant.

Cemprotec E-Floor, a self-smoothing, water-based, epoxy and cement modified polymer coating, was chosen as an alternative to standard epoxy floor toppings due to its superior protection. Able to be applied to the freshly laid concrete floor without waiting for a full 28 day cure, it cures to form a dense, hard-wearing, waterproof surface with exceptional resistance to abrasion, impact, chloride ions and aggressive chemicals. Applied at just 2mm, it is able to resist freeze/thaw attack and develops high early strength, enabling rapid reinstatement of traffic.

Cemprotec E-Floor is fully waterproof and offers low permeability to water even at 10 bar positive pressure. It stops the ingress of chlorides and its high strength finish resists damage from studded tyres which are common in Finland. As **Cemprotec E-Floor** is pre-packaged, it only requires mixing on-site and due to its waterborne composition, it is low hazard releasing no harmful solvents or strong odour during application.



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