Self-sensing and self/easy-cleaning
Nano-enabled properties of cementitious materials (durability, easy maintenance and material health monitoring)

Area of expertise:
• Industrial application in pilot scale
• Cementitious materials improved properties and durability
• New concrete’s functionalities

Services
• Cementitious materials development including various functionalities:
  ➢ Nano-enabled hydrophobic concrete
  ➢ Self-sensing concrete for structure monitoring
  ➢ Easy-to-clean/self-cleaning facade panels
  ➢ Improving concrete’s tensile strength with nano-fibers
• Structural elements design

Regulations
• EN standards

Testing
• Accredited lab for over 100 tests on concrete and natural stone
• Mechanical testing (compression, bending, shrinkage etc.)
• Fresh concrete rheology (rheometer, setting etc.)
• Environmental testing (chloride migration, sulphate attack, carbonation, frost resistance)
• Chemistry lab with microXRF, isothermal calorimetry etc.

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