

application note



Concrete Durability

Banagher Precast Concrete Ltd

Accurate rebar location on major civil engineering projects to save time and money

Non-destructive testing of concrete is critical where a building or structure is in-situ or in use. The Torrent permeability tester allows for such testing. The test will not structurally affect the operation of the building and there is no need to mechanically remove any part of such structure.

Application

Pre-cast concrete production, or indeed all types of visual concrete have been the subject of much debate within engineering fields for many years. Even with the highest quality control standards it is almost impossible to produce a consistent light coloured concrete continuously. However if there is colour variation, does it have an impact on the performance or behavior of the concrete?

It was essential to determine if colour variation played any role in the long term performance of the structure, could colour impact on the durability aspects of the concrete?

Proceq's Torrent permeability meter was used on over 40 samples of light and dark concretes to verify such correlations.

Customer Quote

"Torrent's accuracy and speed of use was an excellent application. We appreciated Proceq's quick reactions in supporting this PhD thesis (Trinity College, Ireland)."

Banagher Precast Concrete Ltd., Ireland

Profile

Customer

Banagher Precast Concrete Limited is the largest Precast Concrete manufacturer in Ireland. Completed projects include the Dublin Port Tunnel, Croke Park and the AVIVA Stadium.

Employees

250 at its precast yard.

Requirements

- Determine if colour variation in concrete affect its lifetime durability performance
- Non-destructive technique
- Portable tester

Proceq Product

Torrent Permeability Meter

Benefits to the customer

- Very easy to use
- Cost saving
- Accurate
- Mobile