

# application note



## Concrete Compressive Strength Testing

# Geotech Services

Results from concrete specimens which are sampled during concrete laying may not truly represent the strength of the concrete in the structure due to varying degrees of curing, compaction and segregation.

In situ NDT (Non-Destructive Testing) at multiple locations is more representative. It is the best tool for Quality Assurance. NDT results are more expressive of the overall quality of the concrete in the structure.

## Application

Geotech Services use the SilverSchmidt UN model to determine in-situ concrete strength as a quality control tool and also to determine the need for rehabilitation of old structures. They are carrying out a study on correlation of NDT results for fibre reinforced concrete. The laboratory runs NDT tests on concrete specimens before crushing and presents first hand correlations to their clients for the specific concrete design mix. This gives their clients complete confidence in the NDT results conducted during construction. It avoids the casting of test specimens. Geotech testing requirements lie between 20 - 60 MPa.

## Customer Quote

"Use of the SilverSchmidt has improved our interpretation of results. Moreover, we have been able to win the confidence of our clients by providing them with quick and reliable testing services. This has resulted in customer loyalty and satisfaction. We look forward to more instruments from Proceq in the future for total concrete solutions."

*GEOTECH SERVICES - Proceq customer since 2009*

## Profile

### Customer

Geotech Services is a renowned consulting Firm in Central India, providing Quality Assurance Services to civil engineering Projects. Its testing laboratory is certified under ISO 17025.

### Employees

48 in India, Civil Engineers, Chemists, Geologist and Laboratory Technicians.

### Requirements

- Onsite non-destructive testing of concrete compressive strength.
- Speed of measurement required, as testing frequency generally high.
- Reliable strength measurement for all types of concrete.

### Proceq Product

SilverSchmidt UN

### Benefits to the Customer

- Impact angle independence
- Hammerlink Software for result interpretation
- User defined conversion curves correlated to the specific design mix