

# Foundationcrete<sup>TM</sup>



Mix with the Best



*Foundations need to face the brunt of aggressive environment; chlorides, sulphates and at times chemicals present in the subsoil may ingress into the concrete, eventually compromising its durability. Moreover, foundations get embedded in the ground and are not available for frequent inspections. Hence, ensuring their long term durability becomes critical.*

Foundationcrete™ is a special concrete that makes foundations stronger and durable. It is characterized by high performance and high durability acquired through higher than normal replacements of OPC with PFA and / or GGBS and sometimes in combination with other supplementary cementitious materials (SCMs).

The delayed reactions of the cement additions reduce the heat of evolution of the overall system at early ages, thereby mitigating early-age cracking. This feature is also effective in controlling thermal gradients in mass concrete applications, thereby alleviating thermal cracking and coercing durability of the structure. The higher addition of SCMs not only induces better mobility in the mix at reduced water/binder ratios, but also reduces the concrete permeability on account of the secondary reactions leading to pore refinement and a denser concrete matrix.

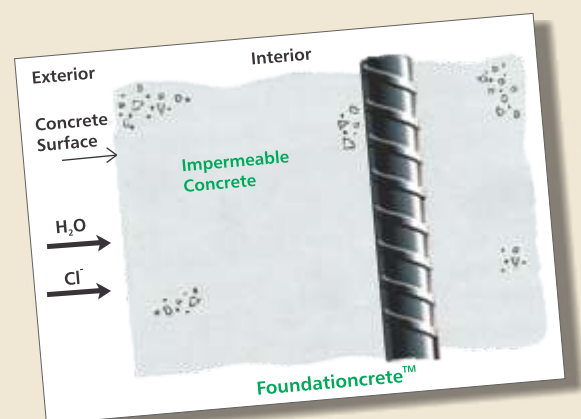
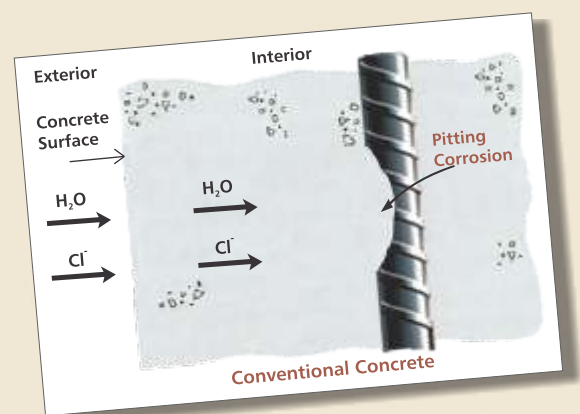
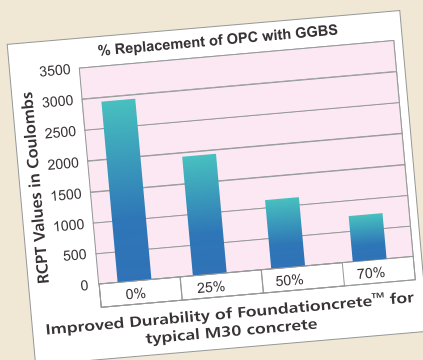
The long term compressive strength of Foundationcrete™ normally exceeds that of conventional concrete; longer term (56 days) compressive strength requirements are often specified.

#### 5 key advantages:

1. Continued strength gain up to later ages.
2. Superior concrete performance in Aggressive Environments.
3. Low heat of hydration and hence, mitigates Cracking.
4. Enhanced plastic properties.
5. Protects the Environment by minimising cement consumption through increased absorption of cementitious by products.

#### Applications:

- Footings of all shapes and sizes.
- Foundations of all types.
- Underground soil supported structures.



**RMC Readymix (India)**

(A Division of Prism Cement Limited)

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