

Green Concrete for durable foundations



A good and strong foundation
keeps the building standing while
the forces of nature wreak havoc.

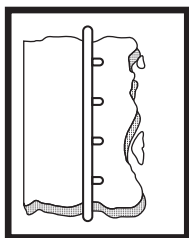
CONCRETO[®]
ECODURE
Green Concrete for durable foundations

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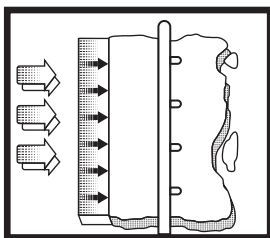
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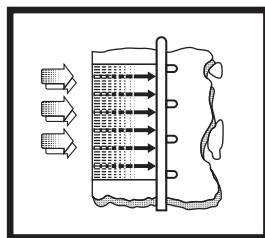
Foundations are vulnerable to presence of subsoil water, sulphates, chlorides and other harmful chemicals. Salts present in the soil ingress into concrete corroding the reinforcement and reducing durability of the structure.



**Regular
foundation
concrete**



**Chloride & sulphate
ions present in
subsoil start
penetrating in
concrete**



**Reinforcement
starts corroding
and weakens
the foundation**



ConcreTo Ecodure is produced with cement, pozzolanic materials, special chemical admixture and by carefully proportioning all concrete ingredients, which is effective in controlling thermal cracking in mass concrete foundation and offering improved durability.

Parameter	Specification	Reference
Design Grade Of Concrete	M20,M25,M30, M35,M40	IS 456
W/B Ratio	0.35-0.50	IS 456
Drying Shrinkage	< 0.0035	ASTM C157
Water Permeability	<25 mm	BS 12390-P8
RCPT	2500-4000 C	ASTM C 1202
Water Absorption	<3%	BS 1881 P122
Capillary Absorption	Very Low	Rilem CPC 11.2
Concrete Core Temperature	<70°C	ACI:301.20
Temperature gradient	<20°C	ACI:301.20

Compressive Strength N/mm ²					
Days / Grade	M20	M25	M30	M35	M40
7 Days	≥ 8	≥ 10	≥ 12	≥ 14	≥ 16
28 Days	≥ 15	≥ 19	≥ 23	≥ 26	≥ 30
56 Days	≥ 20	≥ 25	≥ 30	≥ 35	≥ 40

APPLICATION:

- All types of shallow foundations
- Raft foundation, mass concrete foundations
- Road pavements
- P.C.C.

ADVANTAGES:

- It is pumpable and can be poured with ease into places that are difficult to reach. It helps in maintaining uniform levels and is very compact.
- It reduces permeability of concrete, thereby preventing chloride and sulphate ion attack on reinforcements.
- Characteristic strength in 56 days and continued strength gain in later ages.
- Superior concrete performance in aggressive environments.
- Low heat of hydration, mitigates cracking and enhances durability.
- Enhanced plastic properties.
- Protects the environment by minimising cement consumption through increased absorption of cementitious by-products.

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Disclaimer

The use of this product is beyond the manufacturer's control. The manufacturer is not responsible for any loss or damage arising from incorrect usage. The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application.

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