

मजबूत कोंक्रीट  
अटूट विश्वास!



RMIX  
**Hanuman**  
Durable Concrete

**Ganga** – Self Compacting Concrete

**Sudarshan** – Concrete Without Cracks & Waterproof

**Ganesha** – Fiber Reinforced Concrete

**Pawan** - Strength Meets Lightness

**Hanuman** - Durable Concrete

**Lakshman** - Temperature Controlled Concrete

**Shankara** - Concrete that fights with Corrosion





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**Durability of concrete** pertains to its ability to withstand weathering, chemical aggression, and abrasion while retaining its intended engineering characteristics. This characteristic is often associated with the expected duration or **trouble-free performance** over the lifespan of the material. The level of durability required varies among different types of concrete, depending on factors such as the **exposure environment** and desired properties. For instance, concrete intended for exposure to tidal seawater will necessitate distinct durability considerations compared to indoor concrete.

Durability is the ability of concrete to resist **weathering actions, chemical attacks, and abrasion** while maintaining its desired **engineering properties**.

A durable concrete structure withstands deterioration over its design life through exposure to the environment. Factors that influence durability include the **water-cement ratio, cement content, cover thickness, type of aggregates used**, and curing of the concrete. Permeability is an important indicator of durability, with lower permeability reducing susceptibility to chemical attacks. Proper compaction and curing help reduce the permeability of concrete.

## Advantages

- ✓ Longevity & Reduced Maintenance
- ✓ High Strength & Structural Integrity
- ✓ Premium and Aesthetic Product
- ✓ Reduced Carbon Foot print
- ✓ Dense concrete with low water permeability



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## Specifications

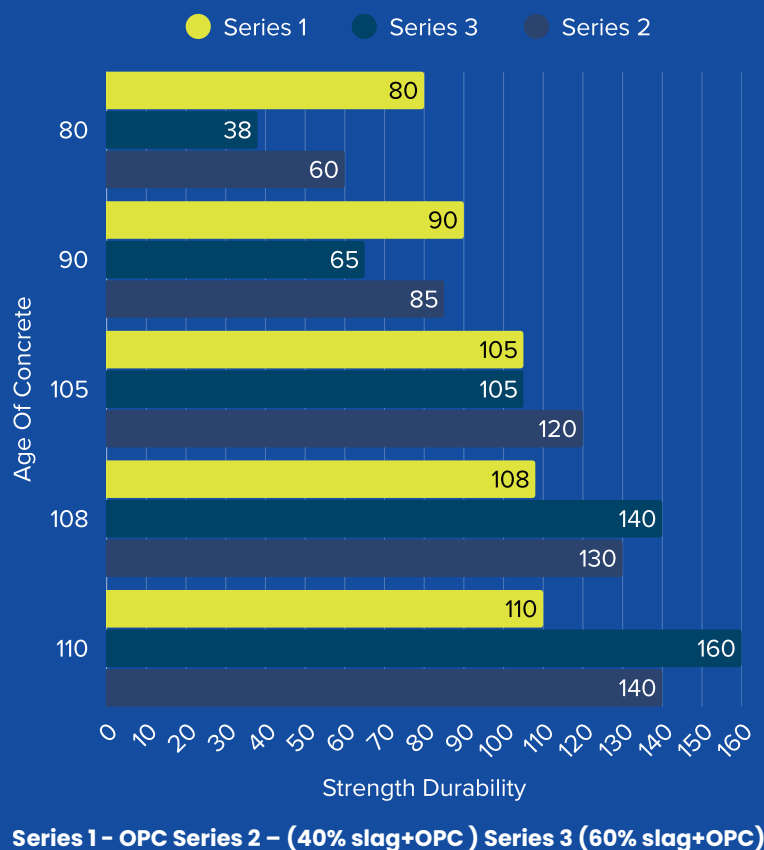
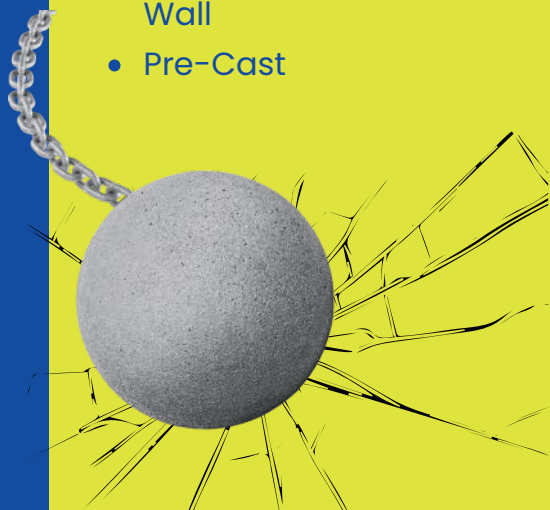
- A durable concrete is one that performs satisfactorily in the working environment during its anticipated exposure conditions during service (IS 456-2000)
- Durability of concrete is its ability to resist **weathering action, chemical attack, abrasion or any other process of deterioration** (American Concrete Institute).
- When exposed to environment durable concrete is likely to retain its original form, quality and serviceability during its lifetime.

Durable Concrete envisage limits for maximum water cement ratio, minimum cement content, cover thickness, type of cement used and presence of amount of chloride and sulphates in concrete. (IS-SP-28)

- As Low permeability as possible under situation. (IS-SP-23)

## Key Applications

- Mass Concrete
- Thick Rafts Sections Deeper Than 500mm
- Foundation & Bridge, Dam, Marine Structure, Retaining Wall
- Pre-Cast







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Strengthening...  
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**RMIX**  
**Vadod**

Vesu, Sachin, Hojiwala Industrial,  
Udhana, Pandesara/Vadod, Althan

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Hazira

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**RMIX**  
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