

SUPER SETTING KA WADA MAZBOOT NIRMAAN TIKE ZYADA



DURAGUARD XTRA

Setting Standards

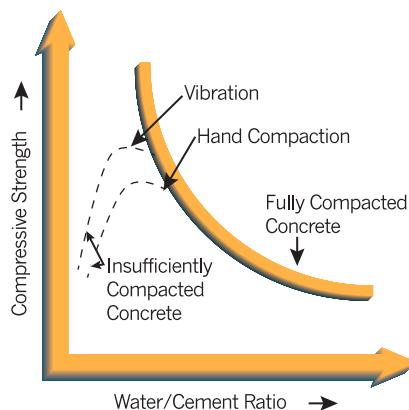
Introducing Duraguard Xtra with 'Superset Technology', a revolutionary technology that uses optimum amount of water to lend the cement enhanced workability, high compaction and optimum setting time through a unique ball bearing mechanism. It renders balance to the strength and duress of the concrete making it the perfect companion for building your perfect home.

DURAGUARD XTRA

Workability Vs Strength of Concrete

As shown in the figure, the strength of concrete decreases with the increase in water to cement ratio. The increase in water to cement ratio improves workability of the concrete. Thus, the strength of concrete is inversely proportional to the workability of concrete.

Duraguard Xtra comes with rounded and uniformly distributed grains that ensure higher workability at a lower Water Cement Ratio which is achieved through a unique 'ball bearing' action amongst its particles. After the concrete is applied, it dries up, which results in gaps in the concrete left by the absence of water molecules. But Duraguard Xtra, with its uneven cement molecule sizes and lower water content ensures that there are no gaps left. Because more water means lesser compactness resulting in weakening of the compressive strength of concrete.



The workability of concrete can also be enhanced with use of rounded aggregates and with the use of 'Workability Enhancing' cement or admixtures. This helps in attaining required strength and workability for concrete work.



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Lower Friction, Higher Compaction

Duraguard Xtra gives high density concrete or mortar by decreasing voids between cement particles. However, the factors that contribute towards reduction in its internal friction are:

- **Water Content**

Better workability is achieved with less water

- **Aggregate/Cement Ratio**

For optimum aggregate/cement ratio less water should be used

- **Size of Aggregate**

The particles of the aggregate should be unevenly shaped (small, big & medium)

- **Shape of Aggregates**

They should be angular or rounded in shape and should not be flaky or flat

- **Grading of Cement Particles and Aggregates**

- **Surface Texture of Cement Particle and Aggregates**

- **Use of admixture**

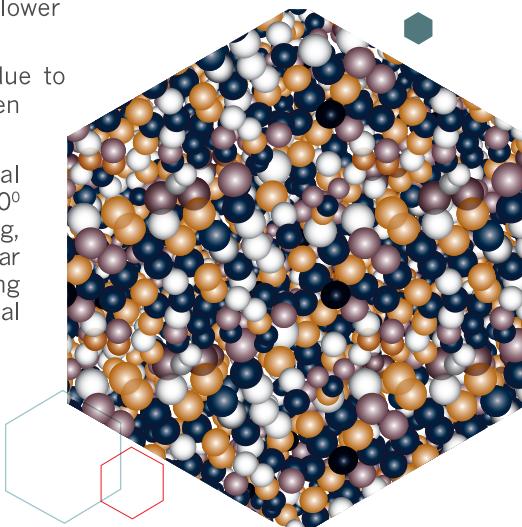
Its addition helps optimize workability further



DURAGUARD XTRA

Differentiating Features: Setting It Apart

- Enhances workability due to the unique ball bearing action between cement particles-Workability Enhancing Cement Technology
- Provides higher workability at lower water-cement ratio
- Application becomes easier due to higher workability at any given water to cement ratio
- Uniformly distributed spherical grain size that ensures 360° compact packing and interlocking, which means lower inter-granular voids that secures the reinforcing steel bars against external weathering agents
- Revolutionary Superset Technology that ensures an optimum setting time without compromising on the strength of the concrete



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