

TECHNICAL DATASHEET

ROBUSTO HRWRA 909

PRODUCT DESCRIPTION

ROBUSTO HRWRA 909 is a unique combination of the next generation hyper-plasticizer admixture of Nano PCE Molecule Technology. This technology helps to repel the cement particles for longer duration and provides a higher Dense concrete.

ROBUSTO HRWRA 909 combines the properties of High range water reduction and retardation. It helps to produce the high performance concrete with higher workability.

USES

ROBUSTO HRWRA 909 is used for the following:

- Used for SCC & SDC
- Capable to Pump the concrete to greater heights.
- To produce free flow concrete.
- Used for Concrete design with lower W/C ratio and/or high powder content.
- High performance concrete.
- Provides High early strength.

DOSAGE

Trials should be conducted to determine the optimum dosage of **ROBUSTO HRWRA 909** to meet the requirements by using the available raw materials at site. However, the normal dosage ranges between 0.2 to 1.4 % by weight of total cement or binder content.

TECHNICAL SUPPORT

ROBUSTO provides technical advisory service for on-site assistance and guidance on mix design, finding the optimum dosage by conducting trials.

ADVANTAGES

ROBUSTO HRWRA 909 is an advanced PCE based on Nano Technology which gives the following:

- Increases retention, controls the heat of hydration and yields high ultimate strength.
- Compatible with cement replacement such as Fly ash, GGBS and microsilica etc.
- Used to produce rich and cohesive mixes with the help of in-built VMA.
- Higher E - modulus & Lower permeability.
- High efficiency even at lower dosage.

BENEFITS

- Used in fast track construction.
- Used for producing high quality Ready mix Concrete.
- Used in congested Reinforcement structures.
- Helps to reduce the Cementitious content by reducing W/C ratio.
- Makes the concrete flowable and helps to have smoother surface finish.

STANDARDS

ROBUSTO HRWRA 909 complies with **IS-9103:1999** and **ASTM C494, Type G**, High-range water-reducing and Retarding Admixtures depending on the dosage used.

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TECHNICAL PROPERTIES @ 25°C

Colour : Yellowish to brownish
Liquid.

pH : Minimum 6.0

Specific gravity : 1.09 ± 0.02

Chloride content : Nil as per BS 5075

COMPATIBILITY

ROBUSTO HRWRA 909 can be used with all types of Portland cement and cementitious materials. **ROBUSTO HRWRA 909** should not be used in conjunction with other admixtures or can be used only after Consulting **ROBUSTO's** Technical Department.

EFFECT OF OVER DOSAGE

Overdosing of **ROBUSTO HRWRA 909** will cause the following:

- May arise unwanted high workability.
- May cause Bleeding & segregation.
- May cause Flash setting in concrete.
- May develop stickiness hence leads to the chocking of the Concrete pump.

PACKAGING

ROBUSTO HRWRA 909 is available in 225 Kg drums supply.

STORAGE

ROBUSTO HRWRA 909 has a shelf life of 12 months from date of manufacturing If stored at Cool & Dry place and away from the direct sunlight.

CLEANING

ROBUSRO HRWRA 909 can be washed with fresh cold water.

HEALTH & SAFETY

ROBUSTO HRWRA 909 is not classified as hazardous material.

ROBUSTO HRWRA 909 should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

FIRE

ROBUSTO HRWRA 909 is water based concrete admixture and non- flammable.

DISCLAIMER

The manufacturer reserves the right to change the specifications. RCPL products are guaranteed against material manufactured and are sold subject to the company's Terms and Conditions of Sale. Whilst we endeavour to ensure that advice, specifications, recommendations, and information given is correct, we cannot have control over how our products are applied and will not accept liability, directly or indirectly, arising from application of our materials.