

# TECHNICAL DATASHEET

## ROBUSTO HRWRA 279

### PRODUCT DESCRIPTION :

**ROBUSTO HRWRA 279** is a high performance Superplasticizer admixture based on PCE polymers with long chains specially designed to enable the water content of concrete to perform more effectively.

This admixture is effective in improving the day to day production efficiency of a concrete plant by rapidly dispersing cementitious contents in concrete mixtures, the minimizing mixing time.

### USES :

**ROBUSTO® HRWRA 279** is a new generation super plasticizer that is specially designed to produce ready mixed concrete. It helps in water reduction and improves the fresh concrete characteristics.

**ROBUSTO HRWRA 279** is used for the following:

- Water Reduction.
- Better workability.
- Improves Durability.
- Pumpable concrete.

### DOSAGE :

Trials should be conducted to determine the optimum dosage of **ROBUSTO HRWRA 279** to meet the performance requirements by using the materials and conditions in actual use. However, the normal dosage ranges between **0.3 to 1.2 %** by weight of total cement or cementitious content.

### TECHNICAL SUPPORT :

**Robusto Chemicals** provides technical advisory service for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

### ADVANTAGES :

**ROBUSTO® HRWRA 279** is an improved Superplasticizer based on advanced PCE technology which gives the following:

- Maximum water reduction and hence better durability.
- Minimises segregation and bleeding problems by improving cohesion.
- High efficiency even at low dosage.
- Better workability properties and pumpable concrete.

### BENEFITS :

- Improved finishability and surface appearance.
- Improves in Pumpability.
- Reduces bleeding.
- Flexibility in Concrete mixture development for cement reductions and/or to increase the use of supplementary cementitious materials.

### STANDARDS :

**ROBUSTO® HRWRA 279** complies with IS 9103:1999 and ASTM C494, **Type-D, Water Reducing and Retarding** admixtures depending on the dosage used.

### TECHNICAL PROPERTIES @ 25°C:

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## **ROBUSTO HRWRA 279**

Colour : Yellowish to Brownish  
Liquid.

pH : Minimum 6.0

Specific Gravity : 1.04 ± 0.02

Chloride Content : Nil as per BS 5075

### **COMPATIBILITY :**

**ROBUSTO® HRWRA 279** can be used with all types of Portland cement and other cementitious materials. **ROBUSTO HRWRA 279** should not be used in conjunction with other admixtures or can be used only after Consulting ROBUSTO technical department.

### **EFFECT OF OVER DOSAGE :**

Overdosing of **ROBUSTO HRWRA 279** will cause the following:

- Increase in workability.
- May Bleed & Segregate.
- May increase in retardation, prolongs the setting time.

### **PACKAGING :**

**ROBUSTO HRWRA 279** is available in 225 Kgs drums supply.

### **STORAGE :**

**ROBUSTO HRWRA 279** has a shelf life of 12 months from the date of manufacturing If stored at Cool & Dry place and away from the direct sunlight.

### **CLEANING :**

**ROBUSTO® HRWRA 279** can be washed with fresh cold water.

### **HEALTH & SAFETY :**

**ROBUSTO® HRWRA 279** is not classified as hazardous material.

**ROBUSTO® HRWRA 279** 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 279** 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.*