

# **PRISM JOHNSON LIMITED**

(Formerly Prism Cement Limited)

**RMC India Division**

Construction Chemicals Business

Technical Datasheet

Construction Chemicals

## **ENDURAMOL WR 2405**

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### **DESCRIPTION**

**ENDURAMOL WR 2405** is high grade super plasticizer based on polycarboxylate ether polymer with long lateral chain. It is having high water reducing capacity cum slump retention property in concrete application. It produces concrete with exceptionally workable characteristics referred to as high flow able concrete. It helps in producing concrete of high workability and high strength.

### **WORKING PRINCIPLES**

It increases the workability of concrete mixes by its powerful electro-static force and steric hindrance on cement particles, which in turn helps to produce high workable concrete or enables in significant reduction in free water content.

### **PRODUCT APPLICATION**

- ✓ Concrete Admixtures
- ✓ Ready-mix concrete
- ✓ High performance concrete for durability
- ✓ High early and ultimate strength concrete
- ✓ High workability without segregation or bleeding
- ✓ Precast & Pre-stressed concrete
- ✓ Concrete containing pozzolans such as micro silica, GGBFS, PFA.

### **ADVANTAGES**

- ✓ High water reduction capacity, having 42 to 45% water reduction capacity with a particular dosage.
- ✓ Improve workability
- ✓ Elimination of vibration and reduced labour cost in placing
- ✓ Significant increase in early & ultimate strengths
- ✓ Higher E modulus
- ✓ Improved adhesion to reinforcing and stressing steel
- ✓ Better resistance to carbonation and other aggressive atmospheric conditions
- ✓ Lower permeability - increased durability
- ✓ Reduced shrinkage and creep
- ✓ It can be easily mixed with ENDURAMOL Grade SLUMP RETAINING or HYBRID TYPE molecule to get enhanced performance.

## PROPERTIES

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Appearance	: Colorless to faint yellow Liquid
pH	: 5.0 ± 1
Specific Gravity at 30 °C	: 1.100 ± 0.05
Chloride content	: Nil to 0.03% Max
Solid content (% by mass)	: 55 ± 1

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## RECOMMENDED DOSAGE

Typically, 0.3 to 1.2% by weight of cement / cementitious is recommended. Can be used with Enduramol grade HBD and SR type polymer in blending ratio. However optimum dosage of **ENDURAMOL WR 2405** should be determined with trial mixes. Because of variations in concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local **PRISM JOHNSON, RMC INDIA - CCB** representative for additional information on **ENDURAMOL WR 2405** molecule or on its use in developing concrete mixes with special effects of over dosage. A severe over-dosage of **ENDURAMOL WR 2405** can result in the following:

- ❖ Extension of initial and final set
- ❖ Bleed / segregation of mix
- ❖ Increased plastic shrinkage

## CAUTION

**ENDURAMOL WR 2405** should be dispensed through suitable calibrated dosing equipment. It should not be premixed with other chemicals if not recommended. It should be mixed thoroughly before use. Do not add **ENDURAMOL WR 2405** to dry cement.

## SAFETY PRECAUTION

**ENDURAMOL WR 2405** is an acidic solution. It may cause irritation to eye and skin on direct or prolonged contact. Suitable protective gloves and goggles should be worn. Splash on skin should be cleaned with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. For further information on safe handling, storage and disposal, you advised to follow MSDS.

## PACKAGING & DELIVERY

Delivered in 230 kg HDPE barrels or & bulk tanker as per requirements and mutual understanding

## STORAGE

Keep in cool and dry place under shade and away from direct sunlight

## SHELF LIFE

12 months from the manufacturing in original unopened condition.

## FURTHER INFORMATION

**PRISM JOHNSON LIMITED**

**RMC (INDIA) Division**

Construction Chemicals Business

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