

# Expanplast RP265\*

## Retarding water reducing admixture

### Uses

To improve the effectiveness of the water content of a concrete mix, at higher dosages to provide cost effective means of reducing concrete permeability and thereby reducing water penetration, provide excellent water reduction and retention of workability.

### Advantages

- Allows specified strength grades to be met at reduced cement contents or increase workability.
- Water reduction significantly improves compressive strengths at all ages and enhance durability through the production of low permeability concrete
- Controlled retardation extends working life and stiffening time for ease of construction, especially suitable for large pours.
- Minimize the risk of segregation and bleeding, assists in the production of dense, close textured surface, improving durability.
- Chloride free, safe for use in prestressed and reinforced concrete.

### Standards compliance

Expanplast RP265\* conforms with BS 5075 Part 1, ASTM C494 as A, B & D, BSEN 934-2

### Description

Expanplast RP265\* is a chloride free water reducing admixture based on selected sugar-reduced lignosulphonates, it is supplied as brown solution which instantly disperses in water.

Expanplast RP265\* disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively. The improved dispersion of cement particles enhances the efficiency of hydration. At higher dosage levels retardation of setting will be obtained.

### Dosage

The optimum dosage of Expanplast RP265\* to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use.

The normal dosage range is from 0.50 to 1.65 liters/100 kg of cementitious material, including PFA, GGBFS and microsilica.

Dosages at the higher end of the ranges recommended will give significant retardation and may only be suitable for use in warmer climates.

### Use at other dosages

Dosages outside the typical ranges quoted above may be used to meet particular mix requirements. Contact Fospak for advice in these cases.

### Effects of overdosing

An overdose of double the intended amount of Expanplast RP265\* will result in a significant increase in retardation as compared to that normally obtained at the intended dosage.

This effect is found with most water reducing admixtures, although the degree may vary. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased.

The effects of overdosing will be further increased if sulphates resisting cement or cement replacement materials are used.

An overdose will increase core workability and increased initial workability will tend to extend the working life of the concrete, which will delay finishing and stiffening times to some extent.

### Properties

Appearance : Brown liquid

Specific gravity : 1.05 - 1.10 ± 0.005 at 20°C

Air entrainment : Typically less than 2% additional air is entrained at normal dosages.

## Instructions for use

### Mix design

The addition of the admixture will allow water reduction from the mix whilst maintaining workability. After initial trials, minor modifications to the overall mix design may be made to optimise performance.

Where the primary intention is to provide high workability, and retardation in concrete, the mix design should be suitable for use as a pump mix. Advice on mix design for flowing concrete is available from Fospak.

### Compatibility

Expanplast RP265\* is compatible with other Fospak admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The trial mixes should assess the resultant properties of concrete containing more than one admixture.

Expanplast RP265\* is suitable for use with all types of cements OPC, SRC and cement replacement materials such as PFA, GGBFS, and silica fume.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

### Dispensing

The correct quantity of Expanplast RP265\* should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results. Contact Fospak for advice regarding suitable equipment and its installation.

### Estimating - packaging

Expanplast RP265\* is available in 210 liter drums and bulk supply.

### Storage

Expanplast RP265\* has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C under shade. Should the temperature of the product fall outside this range then contact your local Fospak office for advice.

**Freezing point: Approximately - 6°C**

### Precautions

#### Health and safety

Expanplast RP265\* does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately do not induce vomiting.

For further information consult the Material Safety Data Sheet available for this product.

#### Fire

Expanplast RP265\* is water based and non-flammable.

#### Cleaning and disposal

Spillages of Expanplast RP265\* should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

\* Denotes the trademark registered.

## REGIONAL SALES OFFICES IN PAKISTAN:

### Fospak (Pvt) Ltd.

#### Head Office

702, Business Avenue,  
Block-6, PECHS.  
Shahra-e-Faisal,  
Karachi, Pakistan  
Tel # +92-21-34528477, 34529859  
Fax # +92-21-34522436  
Email [info.khi@fospak.com.pk](mailto:info.khi@fospak.com.pk)

#### Lahore Sales Office

2<sup>nd</sup> Floor Sarwar Shaheed Plaza,  
Cavalry Ground,  
Main Boulevard,  
Lahore Cantt, Lahore.  
Tel # +92-42-36675773  
Fax # +92-42-36675838  
Email [info.lhr@fospak.com.pk](mailto:info.lhr@fospak.com.pk)

#### Islamabad Sales Office

3<sup>rd</sup> Floor, Building # 6,  
Jinnah Boulevard West,  
Sector A, DHA Phase II,  
Islamabad, Pakistan  
Tel # +92-51-4100169  
Cell # 0322-5001903 - 04  
Email [info.isb@fospak.com.pk](mailto:info.isb@fospak.com.pk)

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