

# EURIPEL W2(1)

Integral Water Repellent Admixture for Concrete



### Product Description

EURIPEL W2(1) is a permeability reducing admixture for use in all types of mortar and concrete mixes. It is particularly suitable for use in ready-mixed concrete and all types of structural concrete. It is also usefully employed in precast concretes involving the use of wet concrete, semi-dry concrete and cast stone. EURIPELW2(1) is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. It is based on a blend of long chain carboxylic acids to give maximum reduction in permeability without inhibiting side effects. This results from a positive chemical action which creates a network of insoluble water resistant material within the pores of the cement matrix.

### Advantages

- Permeability reduction can be achieved without significant changes in strength
- EURIPEL W2(1) can be added by means of an automatic dispenser
- Precast units, blocks bricks and in situ concrete containing this type of admixture have been shown to retain their original clean appearance when exposed to the elements for considerable periods.
- The durability of concrete finishes is increased since the penetration of rain and dew is greatly reduced giving improved resistance to frost damage.
- Aggregate 'mottling' can be prevented in most mixes
- The reduction in permeability obtained with EURIPEL W2(1) is long lasting
- No problems of settlement in storage are encountered

### Typical Properties

Appearance: Amber colored liquid  
Specific Gravity: 1.01 at 20°C  
Chloride Content: Nil  
Freezing Point: <-5°C  
Storage Life in Manufacturer's Drums: 12 months from date of manufacture  
Bulk Storage: 12 months from date of delivery

### Compatibility

With cements: EURIPEL W2(1) can be used with all types of Portland, Pozzolanic, Blast Furnace cements. It can also be used with fly ash and microsilica.

With other admixtures: EURIPEL W2(1) should not be premixed with other admixtures. The performance of the material may be affected by the presence of other chemicals if premixed prior to addition to the concrete mix.

### Method of Use

EURIPEL W2(1) is supplied ready for use, and may be added to the mix water prior to addition to the aggregate. EURIPEL W2(1) will not entrain air when used in wet concretes, but will plasticize the mix and cause a significant increase in workability. It is necessary to reduce the free water content of concrete mixes containing EURIPEL W2(1) to maintain constant workability. If the free water content is not reduced, then an increase in workability will result and there may be some loss in compressive strength. No extension of normal mixing time is necessary.

### Addition Rates Range

Range: 0.5% - 2.0% by weight of cement. The performance of EURIPEL W2(1) is best assessed after preliminary tests on site using the actual mix under consideration.

The material is found to be effective in a wide range of concretes. Because of this range of applications it is difficult to specify a precise level of addition for optimum results to be achieved. Furthermore the degree of reduction in Surface permeability required can be achieved by varying the dosage level which typically lies between 1000ml- 2000ml EURIPEL W2(1) per 100 kg cement.

### **Effects of Overdosing**

Test have shown that the addition of EURIPEL W2(1) to concrete mixes at up to double the recommended level of addition causes slight loss in strength and minimal additional air entrainment.

### **Health and Safety**

Health and Safety See EURIPEL W2(1) Material Safety Data Sheet, or assistance our technical department.

### **Packaging**

EURIPEL W2(1) is supplied in 1000 liter returnable containers. Alternatively, bulk deliveries are also available.

### **Storage**

EURIPEL W2(1) should preferably be stored protected from frost. If the product does become frozen, it can be reconstituted, after thawing, by careful mixing.

### **Technical Service**

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### **Contact Information**

Al-Faiha for Engineering Products  
techsupport@alfaihaengineering.com  
www.alfaihaengineering.com