

# EURIPEL 75ME

Specially formulated advanced admixture for integrally waterproof concrete structures



### Product Description

EURIPEL 75ME is an innovative liquid admixture that significantly reduces both the permeability and the drying shrinkage of concrete. This enhanced concrete performance is achieved by:

- Reduced water absorption and penetration.
- A significant reduction in drying shrinkage, which produces fewer and thinner cracks.
- A low w/c ratio, which reduces capillary paths in the cured concrete.
- High slump, workable concrete mix for ease of placement.
- Enhanced compressive and tensile strengths at all ages. When EURIPEL 75ME is used with EUNIFLOW high performance concrete admixtures, highly effective, integrally waterproof concrete is achieved.

### Advantages

- Reduces drying shrinkage and permeability of concrete.
- Improved workability resulting in easier, more complete compaction can be used in all types of concrete, with all types of cementitious binders.
- Concentrated, liquid formulation for the Middle East conditions – considerably less than other liquid systems and more easily dispersed than a powder.
- No expansive agents
- Improves early strength.
- Can be combined with European Concrete Additives membranes or cavity drain systems for enhanced protection in critical applications.

### Typical Properties

Appearance: straw colored clear liquid

Specific Gravity: approx. 0.92

Air Entrainment: The product doesn't entrain additional air

Chloride Content: Nil

### Applications

EURIPEL 75ME provides structurally integral waterproofing (Type B construction) as defined in BS 8102 2009.

- Water retaining structures.
- Swimming pools.
- Lift pits.
- Tunnels.
- Piles.
- Basements

### Compatibility

**With cements:** EURIPEL 75ME can be used with all types of Portland Cements, including sulphate resisting cements. It is compatible with concrete containing fly ash, ground granulated blast furnace slag (GGBS) and silica fumes. For other cement types consult European Concrete Additives.

**With Other Admixtures:** As with all concrete admixtures, EURIPEL 75ME should not be premixed with other admixtures or chemicals. The product is engineered to be used with European Concrete Additives EUNIFLOW superplasticisers, but must be dosed separately. Physical properties of the concrete may be adversely affected if EURIPEL 75ME is used with other admixtures and chemicals.

### Addition Rates Range

1000 ml–4000 ml per m<sup>3</sup> concrete. As with most products of this type the magnitude of the effect obtained with EURIPEL 75ME, is governed by the quantity of product used, w/c ratio and the specific nature of concrete and constituent materials. It is necessary therefore to assess performance under site conditions using actual materials to determine optimum performance and dosage. EURIPEL 75ME may be used at lower dosages in special conditions, double or

triple blend concrete.

### Mix Design

European Concrete Additives recommend the use of EUNIFLOW superplasticiser (see separate product data sheet). Where alternative superplasticisers are used, ensure they produce the specified workability and maximum w/c ratio, at the equivalent cement content. When non-European Concrete Additives superplasticiser is being considered we recommend trial mixes to ensure compatibility.

Property Dosage	Plain Concrete	EURIPEL 75ME	EURIPEL 75ME
Rate (L/m <sup>3</sup> ) EUNIFLOW Dosage	Nil	2.50	3.75
Rate % B.W.C Maximum Free	Nil	2.50	0.4-1.2%
w/c Ratio Consistent Slump	0.5	0.4-1.2%	0.4
Class	S3	0.4	53
Air Content (%)	0.9	S3	0.9
Typical Improvement			
Compressive Strength (Mpa) 28 days	47	0.9	+36%
Water Absorption (%) ISAT-ml/m <sup>2</sup> /sec	4.8	+37%	-65%
Rate (L/m <sup>3</sup> ) EUNIFLOW Dosage	0.246	-61%	-70%
10 minutes	0.125	-59%	-78%
30 minutes	0.117	-59%	80%
60 minutes	Rate	Rate	Rate
Water Vapour			
Permeability (gm(Ns)-1)	6.60E-10	-56%	>-56%
Drying Shrinkage	0.05	20%	-56%

All test results shown in this data sheet are determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

**Note:** Optimal EURIPEL 75ME & EUNIFLOW addition rate should be determined by trial mix to ensure specified workability and maximum w/c ratios are achieved.

Trial mixes should always use specific cements and aggregates that will be used in the concrete. For further advice, consult European Concrete Additives.

### Dispensing

It is preferable that EURIPEL 75ME should be introduced into the mixer by means of automatic dispensing equipment. Such equipment is available from European Concrete Additives and details will be given on request.

### Health and Safety

Read the product label and SDS (Safety Data Sheets) before use. Users must comply with all risk and safety phrases. SDS's can be obtained from European Concrete Additives

### Packaging

EURIPEL 75ME is supplied in 1000 litre nonreturnable containers.

### Storage

EURIPEL 75ME should be stored in original containers or suitable closed tanks, preferably out of direct sunlight and protected from extremes of temperature. Storage Life: 12 months from the date of manufacture.

### 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

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