

EURIPEL W5

Integral permeability reducer



Product Description

EURIPEL W5 is a dual action product designed specifically to reduce permeability whilst improving water repellency of all types of concrete mixes, including structural concretes. EURIPEL W5 is based on selected raw materials and is manufactured under controlled conditions to give a consistent product. It is formulated from specially blended long chain carboxylic acids. EURIPEL W5 is manufactured under strict quality control procedures to meet the requirements of BS 5075, Part 1. When tested as specified in BS 1881, Part 122, water absorption is typically reduced by approximately 50%.

Advantages

- Can be added by automatic dispenser .
- Is suitable for use in most types of concrete, including pigmented mixes to reduce efflorescence.
- Permeability reductions are achieved together with an increase in strength.
- Can be used in wet-cast mixes, e.g. ready-mix, precast, structural, substructure and insitu concretes, etc.
- Improves durability of both concrete and mortar mixes.

Typical Properties

Appearance: Pale straw colored liquid
Specific Gravity: 1.02 at 20°C
Alkali Content: 8.47% as Na₂O
Sulphate Content: 0.40% as SO₃
Air Entrainment: Air content of concrete will not be significantly increased
Chloride Content: Nil
Freezing Point: 0°C
Storage Life in Manufacturer's Drums: 12 months from date of manufacture

Bulk Storage Life: 12 months from date of delivery.

Compatibility

With cements: EURIPEL W5 can be used with all types of Portland Cements and cement replacement materials

With Other Admixtures: EURIPEL W5 is compatible with other admixtures, provided they are added to the concrete mix separately. The performance of the material may be affected by the presence of other chemicals and we would recommend that materials are not mixed prior to addition to the concrete.

Method of Use

EURIPEL W5 is supplied ready for use and it should be added to concrete mixes during the mixing process, at the same time as the water. It should not be added directly to the cement. When used in wet concrete mixes, EURIPEL W5 will not entrain additional air, but it will be necessary to reduce the free water content to maintain constant workability and to maximize the permeability reduction potential. If the free water content is not reduced, workability of the concrete will be increased and a reduction in compressive strength will result. No extension of normal mixing time is necessary.

Addition Rates Range

0.5% - 2.0% by weight of cement. The performance of EURIPEL W5 is best assessed after preliminary trials in the laboratory or on site, using the actual mix constituents under consideration, to determine the optimum dosage and effect on concrete properties. As a guide to these trials, an addition rate of 500ml-2000ml EURIPEL W5 per 100 kg cement is recommended, although

higher dosages can be used without loss of strength, to achieve specific performance criteria. For advice and assistance with your trials we would recommend that you consult our technical department.

Effects of Overdosing

Overdosing of EURIPEL W5 will generally produce a significant increase in workability which could possibly be accompanied with a reduction in compressive strength. Additionally, delays in concrete setting times could result, which would be attenuated when sulphate resisting cement is used.

Dispensing

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment, details of which are available upon request.

Health and Safety

See EURIPEL W5 Material Safety Data Sheet, or assistance our technical department.

Packaging

EURIPEL W5 is supplied in 1000 liter returnable containers. Alternatively, bulk deliveries are also available.

Storage

EURIPEL W5 should be stored above 300C. Below this temperature the product will cloud and at lower temperatures gel. It can be reconstituted, after thawing out, 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

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