

AQUAPEL EFX

Water Resisting Admixture

Description

Aquapel EFX is a new generation water repellent based on a modified poly-siloxane blend. **Aquapel EFX** is designed to provide exceptional water repellency in concrete and provides benefits in all types of precast concrete, particularly block paving. The blend of silane-siloxane in **Aquapel EFX** has been chosen due to its effective ability in preventing the leaching from concrete of soluble salts, commonly termed efflorescence. In controlling water absorption and efflorescence **Aquapel EFX** increases the durability of concrete and prevents the long term colour degradation of decorative coloured concrete.

Applications

Aquapel EFX is mainly used in dry or semi-dry concrete to reduce water absorption and reduce efflorescence, it can also be used in wet cast concrete to achieve the same performance.

Benefits in Concrete

- Improve durability
- Reduced permeability
- Increased water tightness
- Reduced efflorescence
- Colour enhancement



Properties

Nature	Liquid
Colour	White
Specific Gravity	1.00 g/cm ³
pH	6.5
Chloride Content	<0.10%
Na ₂ O equivalent	<1.00%

Addition Rates

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

200mls - 1000mls per 100 kg cement
(0.20% - 1.00% by weight of cement)

The correct dosage for the material package used should be determined by laboratory trials, please contact the OSCRETE Technical department for further advice.

Standards

Aquapel EFX complies with the requirements of EN934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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Compatibility

Aquapel EFX is compatible with all types of EN 197 cement systems.

Aquapel EFX should not be pre-mixed with other admixtures and should be batched separately.

Storage

Aquapel EFX should be stored undercover and protected from extreme temperatures, if stored unopened within the range 5°C and 30°C the product will have a minimum shelf life of 12 months.

Handling

Please refer to the **Aquapel EFX** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

Notes

Aquapel EFX should be added with the water or at the end of the mixing process and not directly onto the cement. A mixing time of at least 30 seconds is recommended after the addition of the admixture.

If frozen **Aquapel EFX** may be used after thawing slowly at room temperature followed by intensive remixing.

Aquapel EFX should be regularly circulated to ensure complete homogeneity.

Please consult the OSCRETE Technical Department for advice on admixture selection.

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