

# AQUAPEL COLOURSIL

## Water Resisting Admixture

### Description

**Aquapel Coloursil** is a new generation water repellent based on a modified poly-siloxane blend. **Aquapel Coloursil** is designed to provide exceptional water repellency in concrete and provides benefits in all types of precast concrete, particularly block paving. The blend of poly-siloxane in **Aquapel Coloursil** 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 Coloursil** increases the durability of concrete and prevents the long term colour degradation of decorative coloured concrete.

### Applications

**Aquapel Coloursil** 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
- Increased water tightness
- Colour enhancement



### Properties

Nature	Liquid
Colour	White
Specific Gravity	1.00 g/cm <sup>3</sup>
pH	8.5
Chloride Content	<0.10%
Na <sub>2</sub> O equivalent	<1.00%

### Addition Rates

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

250mls - 1000mls per 100 kg cement  
(0.25% - 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 Coloursil** 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 Coloursil** is compatible with all types of EN 197 cement systems.

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

### Storage

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

**Aquapel Coloursil** should be regularly circulated to ensure complete homogeneity.

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

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