

OPTOMIX 210

Water Reducing Plasticiser

Description

Optomix 210 is an economical high performance water reducer based upon polycarboxylate ether, it is designed to improve the workability of the concrete with minimal effects on other properties. **Optomix 210** if used correctly can achieve water reductions above 20%.

Applications

Optomix 210 is used to improve the workability of the concrete if the water content is maintained resulting in minimal effect on strength. If the water content is reduced the flow can be maintained and a significant increase in strength can be achieved.

Benefits in Concrete

- Increased early and final strength
- Reduced shrinkage
- Reduced permeability
- Increased density
- Reduced segregation and bleeding

Properties

| | |
|------------------------------|-------------------------|
| Nature | Liquid |
| Colour | Light Amber |
| Specific Gravity | 1.075 g/cm ³ |
| pH | 6.50 |
| 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 - 1200mls per 100 kg cement
(0.20% - 1.20% 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

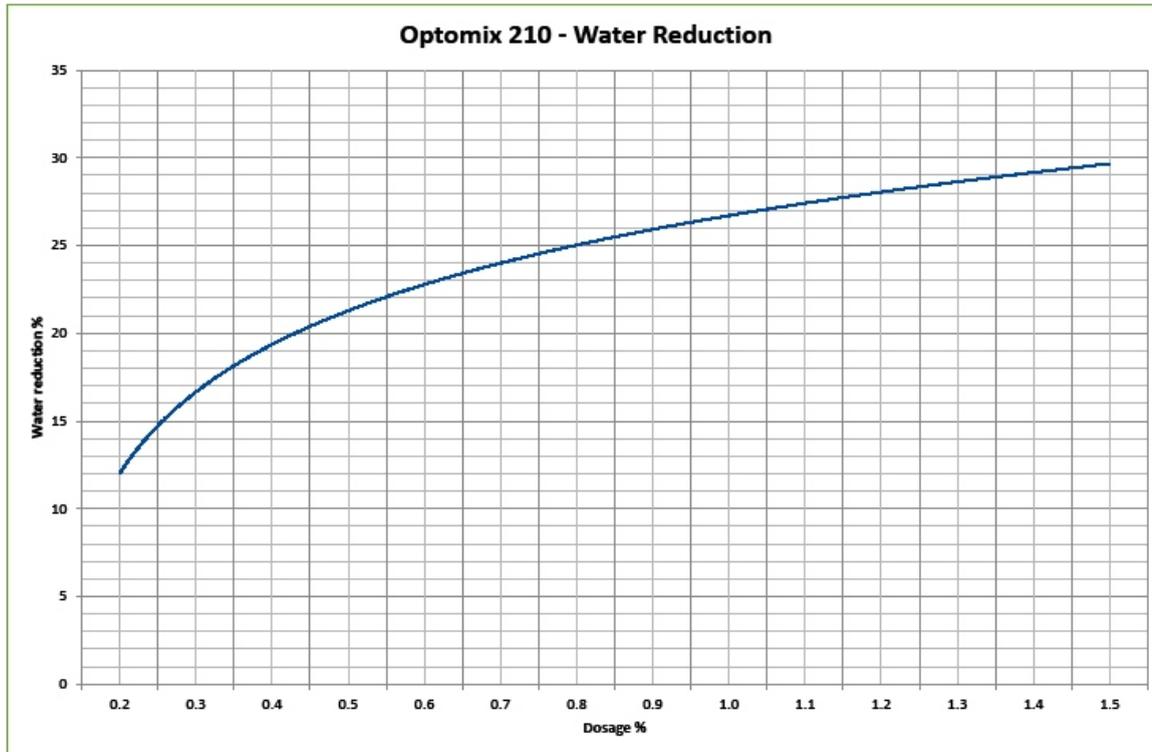
Optomix 210 complies with the requirements of BS EN 934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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Technical



| Admixture | Dose | W/R | 1 day | 28 day |
|-------------|-------|-------|-------|--------|
| Control | - | - | - | - |
| Optomix 210 | 0.20% | 12.0% | 142% | 122% |
| Optomix 210 | 0.40% | 18.6% | 153% | 126% |
| Optomix 210 | 1.00% | 26.6% | 226% | 160% |



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Compatibility

Optomix 210 is compatible with all types of EN 197 cement systems.

Optomix 210 should not be pre-mixed with other admixtures and should be batched separately.

Storage

Optomix 210 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 **Optomix 210** 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

Optomix 210 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 **Optomix 210** may be used after thawing slowly at room temperature followed by intensive remixing.

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

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Disclaimer

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