

# MasterRheobuild 1031

## High range water reducing admixture for concrete - EN 934-2: T3.1 & T3.2

### DESCRIPTION

MasterRheobuild 1031 is a powdered admixture of a low alkali naphthalene sulfonated polymer, which allows mixing water to be reduced considerably and concrete strength to be accelerated particularly at early ages. MasterRheobuild 1031 has been specifically formulated for inclusion into dry silo powder mixes but can also be used in other applications such as sprayed concrete.

### FIELDS OF APPLICATION

- Dry Silo Powder mixes
- Dry Silo Sprayed Concrete Mixes
- Ready mixed and precast concrete where a low water/cement ratio or high workability is required.
- High strength structural concrete.
- Flowing concrete for ease of placing.
- Concrete mixes with low permeability for durable structures.

### FEATURES AND BENEFITS

MasterRheobuild 1031 offers the following benefits:

- Provides high quality rheoplastic non-segregating concrete.
- Mixes containing MasterRheobuild 1031 harden to provide enhanced compressive strength, impermeability, durability and dimensional stability (high elastic modulus, low shrinkage and creep).

### DOSAGE

MasterRheobuild 1031 is normally dispensed at a rate of 0.50 to 2.00 kg per 100 Kg of cement (binder).

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilised in special cases according to specific job conditions. If required consult our Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. Where the concrete is to be machine finished by utilising power float or power trowelling methods, we recommend that you contact the Technical Services Department for dosage rate guidance.

### MIXING

MasterRheobuild 1031 may require mixing times to be increased to ensure full dispersion is achieved.

### COMPATIBILITY

MasterRheobuild 1031 can be used with all types of EN 197 Cements. For use with other special cements, contact our Technical Services Department.

MasterRheobuild 1031 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterRheobuild 1031 they must be dispensed separately.

When complimentary admixtures are required it is important that trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances we recommend that you consult our Technical Services Department for further advice.

### PACKAGING

MasterRheobuild 1031 is available in 500kg bulk bags.

### CONTACT DETAILS

Master Builders Solutions UK Ltd,  
Swinton Hall Road,

Swinton,  
Manchester,  
M27 4EU

Tel: +44 (0) 161 727 6300

[www.master-builders-solutions.com/en-gb](http://www.master-builders-solutions.com/en-gb)

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| Product Data                 |  |
|------------------------------|--|
| Appearance:                  | Light brown powder   |
| Alkali content (%):          | ≤ 5.00 by mass   |
| Chloride content (%):        | ≤ 0.10 by mass   |
| Corrosion behaviour:         | Contains only components according to BS EN 934-1:2008, Annex A.1  |
| Air Content:                 | Fulfilled  |
| Water reduction:             | ≥ 112% of Reference mix  |
| Increase in consistence:     | Increase of ≥ 120mm from initial slump or ≥ 160mm from initial flow  |
| Retention of consistence:    | At 30 mins ≥ Reference mix at initial  |
| Compressive strength:        | Fulfilled  |
| Durability:                  | NPD  |
| Dangerous substances:        | NPD  |
| Logistics                    |  |
| Shelf life:                  | 18 months if stored according to manufacturer's instructions in unopened container.  |
| Storage conditions:          | Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. |
| Handling and transportation: | Refer to MasterRheobuild 1031 Safety Data Sheet  |
| Disposal:                    | Refer to MasterRheobuild 1031 Safety Data Sheet  |



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### EN 934-2: T3.1 & T3.2

Declaration of Performance can be found at [www.master-builders-solutions.com/en-gb](http://www.master-builders-solutions.com/en-gb)

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MasterRheobuild 1031, Master Builders Solutions UK Ltd, Version 4

### Health and Safety

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

### Spillage

Chemical products can cause damage; clean spillage immediately.

### DISCLAIMER

"Master Builders Solutions UK Ltd " (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.