

MasterFinish SLB 101

Water reducing admixture for the production of industrial floor slabs with power floated concrete finishes - EN 934-2: T3.2

Material Description

MasterFinish SLB 101 is the first product in the newly developed MasterFinish SLB range. It is an innovative mid-range water-reducing admixture, based on state-of-the-art Polymer technology, MasterFinish SLB 101 is very effective in producing high quality concrete with neutral impact on the setting characteristics of the concrete. Its unique formulation has been optimised for the specific requirements of the heavy-duty industrial flooring industry. It is particularly suitable for use when the concrete is to be power floated, either with, or without the addition of dry shake surface finishes. Its composition has been carefully developed to ensure that the air content of the concrete is minimised, and that any potential for subsequent air content spiralling is significantly reduced.

Concrete containing MasterFinish SLB 101 has a minimal increase in the setting time characteristics of an equivalent concrete without an admixture incorporated.

Fields of Application

- To increase compressive strength.
- For use with concrete flooring requiring the application of a power float finish.
- For use with concretes requiring the subsequent application of dry shake toppings.
- To effect cement economies.
- Wide dosage range enabling water reductions to produce a dense concrete with reduced permeability and reduced water penetration.

Characteristics and Benefits

MasterFinish SLB 101 offers the following benefits:

- Can be used in a wide variety of concrete mixtures as a multi-purpose admixture.
- Dosage flexibility - provides up to 20% water reduction.
- Minimal impact on setting time characteristics.
- Enhanced later-age strength.
- Excellent finishability,
- Improves the cohesive properties of the concrete helping to reduce segregation and bleed.

- Allows water reduction to be achieved whilst maintaining workability, thereby increasing strength, durability and impermeability.
- Enables economies in mix designs to be achieved.
- Controlled initial air contents, and superior air content spiralling prevention.

Application

MasterFinish SLB 101 is a liquid ready-to-use admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water. MasterFinish SLB 101 should never be added to dry cement.

The water content is adjusted to obtain the desired consistence.

Dosage

Field trials should be conducted to determine the optimum addition rates of MasterFinish SLB 101. The typical dosage rate range of MasterFinish SLB 101 is:

- *By Volume* - 0.40 to 0.8 litres per 100 kg of cement (binder).
- *By Mass* - 0.42 to 1.05 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. Intended dosage rates in excess of those stated above, must be verified by either production, or laboratory trials, prior to use.

Effects of Overdosing

A severe over dosage of MasterFinish SLB 101 may result in the following:

- Retardation of initial set.
- Increase in air entrainment.
- Increase in workability.



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Compatibility

MasterFinish SLB 101 can be used with all types of EN 197 Cements. For use with other special cements, contact our Technical Services Department.

MasterFinish SLB 101 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterFinish SLB 101 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.

MasterFinish SLB 101 is compatible and recommended for use with:

- Shrinkage reducing admixture MasterLife SRA 900 to reduce both the autogenous and drying shrinkage of concrete, while maintaining its mechanical properties.

If the concrete also incorporates micro fibres, macro synthetic fibres, or steel fibres, we strongly recommend that the plastic

and hardened properties of the intended mix design are evaluated before supply.

MasterFinish SLB 101 is not compatible with the MasterRheobuild range of products.

Packaging

MasterFinish SLB 101 is supplied in bulk, 1000-litre IBC's and 15-litre containers.

Contact Details

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| Product Data | |
|--------------------------|-------------------------------|
| Appearance: | Light brown |
| Specific gravity @ 20°C: | 1.05 ± 0.03 g/cm ³ |
| pH-value: | 5.0 ± 0.5 |
| Alkali content (%): | ≤ 0.50 by mass |
| Chloride content (%): | ≤ 0.10 by mass |
| Sulphate content (%): | ≤ 0.10 by mass |

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| Logistics | |
|------------------------------|--|
| Shelf life: | 12 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 MasterFinish SLB 101 Safety Data Sheet |
| Disposal: | Refer to MasterFinish SLB 101 Safety Data Sheet |



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Declaration of Performance can be found at www.master-builders-solutions.com/en-gb



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Disclaimer

MasterFinish SLB 101, Master Builders Solutions UK Ltd, Version 6

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.

