

MasterRoc HCA 20

A chemical system for the storage and reuse of truck mixer wash water and fresh concrete and a set retarding admixture for concrete - EN 934-2: T8

DESCRIPTION

The manufacture of ready-mixed concrete has always caused the problem of disposing of process waste, that is, ready-mix truck wash water and relatively small amounts of unused concrete.

Thanks to its ability of controlling cement setting times, MasterRoc HCA 20 offers in the concrete manufacturing process the concept of “zero waste production”: No more wash water from ready-mix trucks and no more unused fresh concrete to dispose of. MasterRoc HCA 20 allows the reuse of all the wash water the next day or after a weekend, with no need for reclaimer units or slurry pits. Moreover, MasterRoc HCA 20 allows unused fresh concrete to be kept inside the ready-mix truck and be reused the next day or after a weekend.

FIELDS OF APPLICATION

- For the stabilisation of concrete mixer waste.
- For the stabilisation of reused or fresh concrete.

FEATURES AND BENEFITS

MasterRoc HCA 20 offers the following benefits:

- Stabilisation and reuse of concrete wash water from ready-mix trucks overnight or over a weekend. Stabilised concrete wash water is reused as mix water in fresh concrete manufacture. In addition, it ensures better cleaning of the inside parts of ready-mix trucks. All this with no need for reclaimer or recycler units, and ensuring a considerable saving. This also impacts on labour costs as less time is necessary for wash out operations, and because truck mixer blades need less frequent maintenance.
- Leftover fresh concrete can be held and reused overnight or over a weekend. Again, without requiring reclaimer or recycler units, thus providing considerable cost effectiveness thanks to the elimination of the operating costs of handling and the subsequent disposal of solid waste.
- Eliminates environmental concerns about the disposal of wash out slurry or unused fresh concrete.
- Concrete obtained by the reuse of wash water and concrete treated with MasterRoc HCA 20 provides equal or higher performances than reference concrete of equal composition.

- Allows environment conservation since it eliminates the presence of waste in the concrete manufacturing process, thus being beneficial both to the community and to the ready-mix producer's image.

APPLICATION PROCEDURE

Stabilisation and Reuse of Truck Mixer Wash Water:

Truck mixers are generally washed by introducing a large amount of water into the truck agitator drums, mixing for several minutes and discharging the water into either costly recycler units or wash water pits.

The use of MasterRoc HCA 20, and optionally, with frequent use of our patented drum washer throughout the working day (if delays of 30 minutes or more between loads are encountered), is an effective and cost saving alternative. This system requires the introduction of the recommended dosage of MasterRoc HCA 20 then a very low amount of water, 100 - 180 litres, into the mixer via our patented drum washer. It is very important that the water is added in a controlled manner and at the correct operating pressure, to ensure that the mixer drum internals are comprehensively cleaned.

Full stabilisation overnight or weekend of truck mixer wash water, thus allowing the complete reuse of treated water; at the same time it ensures better cleaning of the inside parts of truck mixers than that obtained by traditional methods.

MasterRoc HCA 20 should be used via a secure dispensing system, details of which are available from our local representative.

DOSAGE

1 litre per truck if the water is reused after one night; 2 litres per truck for weekend stabilisation.

The truck mixer can now be parked for the night or weekend, with the treated wash water inside the drum. The following day, when a new mix must be prepared, mix water will be reduced by the amount already present in the mixer and recorded by the dispenser.

The negative environmental impact and additional costs of disposing of wash slurry is therefore completely eliminated simply by reusing all wash water thanks to MasterRoc HCA 20.

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When used purely as a set retarding admixture for concrete, the normally recommended dosage rate of MasterRoc HCA 20 is approximately:

- *By Volume* - 0.1.8 to 1.82 litres per 100 kg of cement (binder) content.
- *By Weight* - 0.20 to 2.00 kg per 100 kg of cement (binder) content.

Other dosages may be recommended in special cases according to specific job conditions. Consult our Technical Services Department for advice.

PACKAGING

MasterRoc HCA 20 is supplied in 980-litre IBC's and 15-litre containers.

CONTACT DETAILS

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Product Data	
Appearance	Pink liquid
Specific gravity @ 20°C	1.10 ± 0.03 g/cm ³
pH-value	1.5 ± 1
Alkali content (%)	≤ 2.50 by mass
Chloride content (%)	≤ 0.30 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
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	MasterRoc HCA 20 is a corrosive liquid. When handling MasterRoc HCA 20 safety glasses and rubber gloves should be worn. In case Delvo Stabiliser comes into contact with eyes, skin or clothing, immediately flush with plenty of water for 15 minutes. For skin, wash with soap and water. Wash contaminated clothing before reuse. Do not take internally. For further details refer to the MasterRoc HCA 20 Safety Data Sheet
Disposal	Refer to MasterRoc HCA 20 Safety Data Sheet



Certificate No. 0086-CPD-469071

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

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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.