

# MasterSet DELVO Easy

Extended storage and re-use of truck mixer washwater and fresh concrete.

## DESCRIPTION AND WHERE TO USE

**MasterSet DELVO Easy** is a self-contained product in powder form, dispensed in water soluble bags, designed to control the hydration of cement in concrete washwater and fresh concrete.

**MasterSet DELVO Easy** is advised for the:

### Stabilization and re-use of truck mixer washwater:

At the end of each day, when a ready-mix truck returns to the plant with no leftover concrete, that truck will still contain a considerable amount of cement, fine aggregate and coarse aggregate adhering to the inside of the truck drum. It is a common practice in the ready-mixed concrete industry to wash this residue out using large amounts of water to thoroughly clean the inside of the truck drum.

Conventional methods for the disposal of concrete washwater include dumping:

- At the job site.
- At a landfill.
- Into a reclaimer/recycler unit.
- Into a concrete washwater pit.
- In the ready-mix plant yard.

The removal of hardened concrete washwater can result in expensive labour costs, excessive wear and tear on front-end loaders, and costly disposal charges.

### Stabilization and re-use of fresh concrete:

Similar disposal problems arise when a truck mixer still contains some fresh concrete at the end of the day.

## BENEFITS

**MasterSet DELVO Easy** stops the cement hydration of concrete washwater and fresh concrete in ready-mix truck drums by forming a protective barrier around cementitious particles. This barrier prevents

Portland cement, fly-ash, silica fume and ground-granulated blast-furnace slag from achieving initial set. This barrier either wears off through time or by the addition of fresh concrete. The morning after overnight or weekend stabilization, the **MasterSet DELVO Easy** treated washwater or concrete is combined with freshly batched concrete and sent to the job site.

**MasterSet DELVO Easy** provides the following benefits:

### Stabilization and re-use of truck mixer washwater:

- Reduces/eliminates the amount of water needed to clean ready-mix truck drums.
- Reduces the labour costs of washing out trucks.
- Reduces/eliminates concrete washwater disposal.
- Reduces/eliminates the need for concrete washwater pits, the resulting wear and tear on front-end loaders, and disposal charges.
- Improves profitability for the ready-mix producer.
- Acts as a cleansing agent to reduce the build-up on fins, thereby reducing maintenance costs incurred from chipping out hardened concrete.
- Concrete containing stabilized washwater will experience strength performance equal to or greater than reference concrete without stabilized washwater.

### Stabilization and re-use of fresh concrete:

- Reduces/eliminates fresh concrete disposal.
- Reduces/eliminates the need for disposal facilities, and disposal charges.
- Improves profitability for the ready-mix producer.
- Acts as a cleansing agent to reduce the build-up on fins, thereby reducing maintenance costs incurred from chipping out hardened concrete.
- Concrete containing stabilized concrete mixes will experience strength performance equal to or greater than reference concrete without stabilized concrete.

Technical Information	
Form	Powder
Colour	Light pink

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## DIRECTION OF USE

### Stabilization and re-use of truck mixer washwater

1. The truck mixer must be empty of any returned concrete. Add approx. 300 litres of water to the truck drum.
2. Move the wash water to the upper rear of the drum.
3. Add required number of water soluble bags **MasterSet DELVO Easy** Return the water to the front of the drum and mix at high speed for 2 minutes.
4. Move the water quickly to the rear for adequate cleaning of fins.
5. Return the water to the front and mix at high speed for additional 2minutes. Repeat steps 5 and 6 twice and park the truck containing the stabilized washwater for the night or weekend. (For safety reasons, the hatch must be left at a high position.)
6. The next day, or after a weekend, reduce the mixing water of the freshly batched concrete that will contain the stabilized washwater by the quantity of water added in step 1.

### Stabilization and re-use of fresh concrete:

1. Identify the required parameters of the mix in order to determine the adequate dosage of **MasterSet DELVO Easy**. Add the necessary quantity of water to obtain a slump of at least 200 mm and mix for approx. 3 minutes. Move the concrete mix to the upper rear of the drum.
2. Add required number of water soluble bags **MasterSet DELVO Easy**.
3. Return the concrete mix to the front of the drum and mix at high speed for 1 minute.
4. Move the concrete quickly to the rear for adequate cleaning of fins.
5. Return the concrete to the front and mix at maximum speed for 5 minutes.
6. Park the truck containing the stabilized concrete for the night or weekend. For safety reasons, the hatch must be left at a high position.
7. The next day, or after a weekend, mix the concrete slowly for 3 minutes.
8. The quantity of the freshly batched concrete must be at least 4 times the quantity of the stabilized mix.
9. Add the freshly batched concrete onto the stabilized mix and mix for approx. 5 minutes. The mixing water of the freshly-batched concrete must be reduced by the water, if any, that has been added in step 2.

## DOSAGE

### Stabilization and re-use of truck mixer washwater:

Dosage of **MasterSet DELVO Easy** is a 250 gr. bag per truck mixer if the water is re-used after one night and 500 gr. ( 2 X 250 gr. bags) if the water is re-used after a weekend. The dosage of **MasterSet DELVO Easy** varies depending on the ambient temperature: Use lower dosages in winter and higher dosages in summer.

### Stabilization and re-use of fresh concrete:

Minimum dosage of **MasterSet DELVO Easy** is 85 gr. per 100 kg of cement. The required dosage of **MasterSet DELVO Easy** varies depending on quantity and composition of the mix, time elapsed since batching, slump, concrete temperature and desired length of stabilization.

Please consult your local BASF Construction Chemicals representative.

## COMPATIBILITY

**MasterSet DELVO Easy** is compatible with all superplasticizers of the MasterGlenium and MasterRheobuild series, with the MasterPozzolith series and all other BASF Construction Chemicals admixtures, except MasterLife SRA 100 (formerly STABILMAC).

It is recommended, however, that your local BASF Construction Chemicals representative be consulted prior to the combination with any admixture.

## PACKAGING AND STORAGE

**MasterSet DELVO Easy** is available in boxes of 25 kg (containing 100 bags of 250 g) and in boxes of 17 kg (containing 200 bags of 85 g). The packaging is water soluble. If stored dry, sheltered and in unopened packages, **MasterSet DELVO Easy** has a shelf life of at least one year.

## SAFETY PRECAUTIONS

The pH value of **MasterSet DELVO Easy** is neutral and therefore, skin contact is harmless. However, it is recommended to wear protective goggles during handling and application. It is further recommended not to take it internally. For further information, see Material Safety Data sheet



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**BASF Construction Chemicals Italia Spa**

Via Vicinale delle Corti, 21 – 31100 Treviso – Italy

T +39 0422 429200 F +39 0422 421802

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

e-mail: [infomac@mbcc-group.com](mailto:infomac@mbcc-group.com)

For further information, please consult your local BASF Construction Chemicals Italia Spa representative.

The technical advice on how to use our products, either written or verbally given, are based on the present state of our best scientific and practical knowledge, and no guarantee and/or implicit or explicit responsibility are assumed on final results of works executed by the use of our products.

The owner, his representative, or the contractor is responsible for checking the suitability of our products as to the intended use and aims.

Supersedes all prior issues on this product.

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