

DELVO[®] EASY STABILIZER

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

DESCRIPTION

DELVO Easy Stabilizer is a self-contained product in powder form designed to control the hydration of cement in concrete washwater and fresh concrete.

RECOMMENDED FOR

Stabilisation 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 reclaim/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.

Stabilisation 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.

FEATURES AND BENEFITS

DELVO Easy Stabilizer stops the cement hydration of concrete washwater and fresh concrete in ready-mix 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 stabilisation, the **DELVO Easy Stabilizer** treated washwater or concrete is combined with freshly batched concrete and sent to the job site.

DELVO Easy Stabilizer provides the following benefits:

Stabilisation 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 cleansing agent to reduce the build-up on fins, thereby reducing maintenance costs incurred from chipping out hardened concrete**
- **Concrete containing stabilised washwater will experience strength performance equal to or greater than reference concrete without stabilised washwater**

Stabilisation 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 cleansing agent to reduce the build-up on fins, thereby reducing maintenance costs incurred from chipping out hardened concrete**
- **Concrete containing stabilised washwater will experience strength performance equal to or greater than reference concrete without stabilised washwater**

COMPATABILITY

DELVO Easy Stabilizer is compatible with all superplasticisers of the Glenium and Rheobuild series, with the Pozzolith series and all other BASF admixtures, except Stabilmac. It is recommended, however, that your local BASF Technical Sales Representative be consulted prior to the combination with any admixture.

TECHNICAL DATA

Properties listed are only for guidance and are not a guarantee of performance.

Form	Powder
Colour	Light pink
Odour	Odourless
pH value	11-12 (10% aqueous solution)
Solubility in water	
Chloride content	Chloride free
Physiological effect	Slightly irritant

APPLICATION PROCEDURE

Mixing

Stabilisation and re-use of truck mixer washwater:

1. The truck mixer must be empty of any returned concrete. Add 200 to 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 of **DELVO Easy Stabilizer**.

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4. Return the water to the front of the drum and mix at high speed for 1 minute.
5. Move the water quickly to the rear for adequate cleaning of fins.
6. Return the water to the front and mix at high speed for 1 minute. Repeat steps 5 and 6 twice and park the truck containing the stabilised washwater 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, reduce the mixing water of the freshly batched concrete that will contain the stabilised washwater by the quantity of water added in Step 1.

Stabilisation and re-use of fresh concrete:

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

CONSUMPTION

Stabilisation and re-use of truck mixer washwater:

Dosage of **DELVO Easy Stabilizer** is 250g per truck mixer if the water is re-used after one night and 500g if the water is reused after a weekend.

The dosage of **DELVO Easy Stabilizer** varies depending on the ambient temperature. Use lower dosages in winter and high dosages in summer. Contact your local BASF Technical Sales Representative for advice.

Stabilisation and re-use of fresh concrete

Minimum dosage of **DELVO Easy Stabilizer** is 85g per 100kg of cement.

The required dosage of **DELVO Easy Stabilizer** varies depending on quantity and composition of the mix, time elapsed since batching, slump, concrete temperature and desired length of stabilisation. Please consult your local BASF Technical Sales Representative.

PACKAGING

DELVO Easy Stabilizer is available in boxes of 25kg (container 100 bags of 250g), or boxes of 17kg (containing 200 bags of 85g). The packaging is water soluble.

STORAGE

If stored dry, sheltered and in unopened packages, **DELVO Easy Stabilizer** has a shelf life of at least 12 months.

PRECAUTIONS

The pH value of **DELVO Easy Stabilizer** 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 internally.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the **BASF Material Safety Data Sheet (MSDS)** from our office or our website.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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