

Murasan Hydrotech 16 eco

Compaction aid for semi-dry concrete



PRODUCT PROPERTIES

- Higher early and final strength due to improved density.
- Energy and time savings due to faster compaction.
- Longer equipment service life due to reduced wear.
- Improved green stability of fresh elements.
- Better surface texture and colour of pigmented concrete.
- Reduced risk of efflorescence.
- Reduced risk of damage from frost and de-icing salts.
- Easier mould filling and more consistent production.

AREAS OF APPLICATION

- Concrete products and elements made of semi-dry concrete.
- Paving stones, slabs, palisades, kerbstones, hollow stones, etc.
- Semi-dry concrete with lower cement and water content.
- Semi-dry concretes with a higher proportion of non-cementitious fines.

APPLICATION ADVICE

Murasan Hydrotech 16 eco is an admixture that improves the processability and compactability of semi-dry concretes. It does this by reducing the surface tension of the water, making the concrete mix less sticky and easier to work with. In addition, the admixture introduces microscopic air bubbles into the fresh cement paste, which act like ball bearings and increase the mobility of the mixture. These air microbubbles also improve the concrete's resistance to de-icing salts and slightly increase the volume of the cement paste, which further improves compaction and leads to more appealing surface textures, colours and shapes, especially in concretes with low cement and water content.

Murasan Hydrotech 16 eco also reduces the internal and external friction of the concrete, which over time can reduce mould wear and maintenance costs of production equipment.

To use Murasan Hydrotech 16 eco effectively, it must be added to the concrete mix after mixing the water. The admixture should not be added to the dry aggregates. The concrete should be mixed for at least 60 seconds after adding the admixture to achieve good distribution and maximum effectiveness.

Please refer to the "General instructions for the use of concrete admixtures".

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	1.01	± 0.02 kg/dm ³
Recommended dosage range	g	2 - 15	per kg cement
Chloride content (maximum)	%	< 0.1	mass fraction
Alkaline content (maximum)	%	< 5.0	mass fraction
Type of admixture	Compaction aid		
Designation of admixture	Murasan Hydrotech 16 eco		
Colour	blue		
Certificate of conformity of in-company production control	0754-CPD		
Form	liquid		
In-company production control	EN 934-6		
Notified body	Karlsruher Institut für Technologie (KIT) Materialprüfungs- & Forschungsanstalt, MPA Karlsruhe, Notified Body number: 0754		
Delivery form	30 kg canister, 200 kg barrel, 1.000 kg IBC		

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018811]