

# Murasan Hydrotech 802

Special rheology regulating admixture for semi-dry concrete



## PRODUCT PROPERTIES

- improved cement hydration
- increased concrete robustness to water fluctuations
- faster strength development
- enhanced compactibility of semi-dry concrete
- superior green stability even at higher water contents
- denser microstructure
- better visual appearance with more defined shapes and edges
- more vivid and uniform colors

## AREAS OF APPLICATION

- semi-dry concrete goods (paving blocks, tiles, curbs etc.)
- both single- and multi-layered products

## APPLICATION ADVICE

Murasan Hydrotech 802 is a rheology modifying admixture developed for use in semi-dry precast concrete production. It allows the adjustment of water-to-cement ratio in order to optimize the degree of cement hydration. This can lead to improved concrete properties in both fresh and hardened state.

In order to achieve ideal green stability and production speed, the water-to-cement ratio of semi-dry concrete can sometimes get below the value required for hydration of all present cement grains. When this occurs, cement becomes nothing but an expensive filler. Minimization of this phenomena brings material savings, faster and more consistent production output and other technical and economic benefits.

An addition of Murasan Hydrotech 802 into the concrete mix increases its water toleration while maintaining or improving green stability and early strength development.

Improved cement hydration degree leads to superior mechanical properties, durability and better visual appearance.

Murasan Hydrotech 802 is meant to be added into the concrete during mixing, ideally after the addition of mixing water. The mixing time after the addition of Murasan Hydrotech 802 should be at least 60 seconds. Admixture dosage and the corresponding water content should be determined via a preliminary test under production conditions.

Please note the “General Information on the Use of Concrete Admixtures”.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	approx. 1.01	± 0.02 kg/dm <sup>3</sup>
Recommended dosage range	g	2 - 20	per kg cement
Chloride content (maximum)	%	0.1	mass fraction
Alkaline content (maximum)	%	0.5	mass fraction
Designation of admixture	Murasan Hydrotech 802		
Colour	white		
Form	liquid		
In-company production control	EN ISO 9001, EN 934-6		
Notified body	Karlsruher Institut für Technologie (KIT) Materialprüfungs- & Forschungsanstalt, MPA Karlsruhe, Notified Body number: 0754		
Certificate of conformity of in-company production control	0754-CPR		
Delivery form	30 kg can 200 kg barrel 1000 kg container		
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.		

**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. [2400020673]