

# Murasan Hydrotech 21

Hydrophobic admixture for concrete goods with compaction aiding effect



## PRODUCT PROPERTIES

- Reduced water absorption
- Improved concrete surface texture
- Minimised tendency to effloresce
- Improved pigmented concrete colour
- Easier to clean surface when dirty
- Enhanced resistance to frost and de-icing salts
- Improved compaction of no-slump concrete
- Chloride-free

## AREAS OF APPLICATION

- High quality semi-dry (no slump, dry cast) concrete goods
- Pigmented concrete goods

## APPLICATION ADVICE

Murasan BWA 21 is a high quality additive for improving semi-dry concrete mixes. It is designed to meet the most demanding requirements of the concrete goods industry. The products work on the basis of a combination of different chemical-physical effects.

Due to its special formulation, Murasan BWA 21 combines good processing and compaction properties with outstanding hydrophobic performance. And all of this in a single product. The combination of chemical and physical effects causes an intensive dispersion of the cement paste, resulting in a lubricating effect between the mould and the concrete during the production process, protecting the mould and improving the concrete surface finish. The hydrophobic lining of the capillary pores reduces water absorption and increases resistance to degradation caused by frost and de-icing salts and other water-related defects.

The combination of improved compaction, surface texture and hydrophobic protection against efflorescence and other types of surface contamination results in brighter and longer lasting colours in pigmented concrete.

To ensure the most effective use of Murasan Hydrotech 21, it should be added to the concrete mix as the final component after the water has been mixed in. The admixture should not be added to the dry aggregates. For proper distribution and maximum effectiveness, the concrete should be mixed for at least 60 seconds after adding the admixture. It is essential to follow these steps carefully to achieve the desired results.

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)	%	< 1.5	mass fraction

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Designation of admixture	Murasan Hydrotech 21
Self-monitoring	EN ISO 9001
Colour	white
Form	liquid
In-company production control	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	200 kg drums 1,000 kg container

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : BZM10

**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. [2300018348]