

Murasan Hydrotech 882

Waterproofing admixture with efflorescence control effect



PRODUCT PROPERTIES

- Enhances durability by reducing water permeability
- Protects against chloride and sulfate attacks
- Reduces cracking and spalling
- Improves freeze-thaw resistance
- Enhances corrosion protection for reinforcing steel
- Reduces the risk of efflorescence
- Minimizes maintenance and repair costs
- Extends the lifespan of concrete elements

AREAS OF APPLICATION

- Concrete goods made from demi-dry concrete such as paving stones, kerbstones, tiles, hollow blocks, etc.
- Precast and ready-mix concrete elements with increased requirements for resistance to water (not pressurised)

APPLICATION ADVICE

Murasan Hydrotech 882 is a waterproofing admixture specifically designed to improve the quality of semi-dry or wet cast concrete products. By incorporating Murasan Hydrotech 882, the concrete's resistance to water ingress is improved, thereby reducing the risk of water related deterioration. It also controls efflorescence by reducing the rate of exchange of water between the concrete and its environment.

As fresh concrete sets and hardens, excess water not involved in cement hydration evaporates. This leaves behind a network of interconnected pores and capillaries. Much like a sponge, these pores readily absorb water by capillary action. The presence of liquid water within the concrete structure can have several detrimental effects. When water freezes, its volume expands by approximately 9%, causing intense pressure within the concrete's porous system. It also acts as a carrier for a variety of corrosive substances and as a catalyst for a number of damaging chemical reactions. As water evaporates from the concrete surface, it leaves behind soluble salts in the form of unsightly efflorescence.

Murasan Hydrotech 882 counteracts these negative effects. During cement hydration, the active ingredient in Murasan Hydrotech 882 interacts with the newly formed hydration products and activates their water-repellent properties. By increasing the water contact angle on the internal surfaces of capillaries and pores, water absorption is kept to a minimum. This enhances the overall durability and long-term performance of the concrete. In addition, Murasan Hydrotech 882 enhances the visual appeal of the concrete surface by promoting a more uniform and intense colour.

Murasan Hydrotech 882 is recommended to be added to the concrete mix either with or after the addition of mixing water. Once added, mixing should continue for at least 60 seconds. It's important to determine the optimum dosage of Murasan Hydrotech 882 as well as its compatibility with other admixtures and additives through preliminary laboratory tests.

Please refer to "General application advice: Application of concrete admixtures" for further details.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	approx. 0.99	± 0.02 kg/dm ³
Recommended dosage range	g	2 - 40	per kg cement
Chloride content (maximum)	%	0.1	mass fraction
Alkaline content (maximum)	%	1.5	mass fraction
Type of admixture	waterproofing sealant per EN 934-2: T9		
Designation of admixture	Murasan Hydrotech 882		
Colour	white		
Form	liquid		
In-company production control	EN ISO 9001		
Notified body	Karlsruhe Institute of Technology (KIT), Materials Testing and Research Institute, MPA Karlsruhe, notified body number 0754.		
Delivery form	30 kg jerrycan / 200 kg drum / 1000 kg IBC		
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 12 months.		
Packaging disposal	Make sure single-use containers are completely empty.		

Safety instructions

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

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. [2400021522]