

Murasan Surface 520

Film-forming surface protection for concrete goods



PRODUCT PROPERTIES

- color enhancing
- film-forming
- silky smooth surface
- reduced effloresce
- protection against environmental degradation
- minimized water absorption
- increased frost protection
- easier maintenance and cleaning
- hydrophobic surface
- no yellowing

AREAS OF APPLICATION

- semi-dry concrete goods (paving blocks, pavers, curbs etc.)
- both wet side and dry side of production
- not intended for white cement concrete

APPLICATION ADVICE

Murasan Surface 520 is a high-performance film-forming coating system for grey and colored concrete goods. It creates a hydrophobic, silky smooth surface that protects the concrete from degradation and allows significantly easier maintenance. Murasan Surface 520 contains color enhancing pigment and is not meant to be used with white concrete.

One of the leading causes for degradation of concrete's surface is liquid water. During the phase shift from liquid to solid at negative temperatures, water expands by 9% and can cause up to 200 MPa of internal pressure inside the concrete structure. While frost damage can be minimized by using de-icing salts, these degrade concrete as well, especially when carried inside by water that subsequently evaporates. Some concrete damaging chemical reactions can take place only in humid environment. Wet concrete is also a perfect substrate for moss, algae or even small plants. When environmental humidity drops and water evaporates back from the concrete, it leaves all soluble minerals and salts in the form of secondary efflorescence.

These negative effects can be completely mitigated by use of high-performance surface protection system such as Murasan Surface 520. It penetrates into the substrate and seal all open pores and capillaries. Murasan Surface 520 also creates a hydrophobic film on the surface, preventing dirt and pollutants (including food, drinks and oils) from adhering and making cleaning and maintenance significantly easier.

Murasan Surface 520 is resistant to aggressive chemicals, mechanical abrasion and UV radiation. It does not yellow over time, assuring brilliant and long lasting colors.

Before application make sure to clean the substrate of any dirt, dust, oils and release and curing agents. For best results, apply as uniformly as possible using a suitable spraying system.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

| Characteristic | Unit | Value | Comments |
|--------------------------|---|--------------|---------------------------|
| Density | kg/dm ³ | approx. 1.06 | ± 0.02 kg/dm ³ |
| Consumption | g/m ² | 100 - 140 | substrate-dependent |
| Type of admixture | Surface protection | | |
| Designation of admixture | Murasan Surface 520 | | |
| Colour | light blue | | |
| Form | liquid | | |
| 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. [2300019095]