

# Murasan Surface 700 coat

Coating for Murasan Surface 700 system



## PRODUCT PROPERTIES

- film-building
- UV-hardened
- high surface hardness
- transparent
- strong protection from environmental damages
- easy to clean surface
- resistant against aggressive chemicals, abrasion and UV radiation
- highly improved frost resistance
- reduced efflorescence occurrence
- no yellowing

## AREAS OF APPLICATION

- high-grade concrete elements and concrete goods (paving stones, tiles, facade elements etc.)
- only for dry side of production

## APPLICATION ADVICE

Murasan Surface 700 Coat is the second component of Murasan Surface 700 UV-hardened coating system. It creates a hard, scratch resistant layer with high gloss and transparency. It is the ultimate protection for high-grade concrete goods or elements exposed to extreme environmental conditions.

The Murasan Surface 700 system (Primer + Coat) offers a superb resistance against most effects that damage or visually degrade concrete surfaces. It penetrates into the substrate and seals open pores and capillaries as well as create a water-repellent and watertight layer on the surface. This prevents the absorption of liquid water and all soluble aggressive substances such as deicing salts, thus minimizing frost damages. The lack of liquid water in the surface layers also decreases the speed of some other degrading processes. By creating a smooth, water-repellent surface, pollutants can be very easily washed off. Murasan Surface 700 system is highly resistance against stains, including things like red wine, coffee and oils. Secondary efflorescence risk also significantly minimized. Murasan Surface 700 Coat does not yellow over time.

Murasan Surface 700 Coat is to be applied by spraying on the dry side of production only. It must be applied on top of Murasan Surface 700 Primer. This assures the best possible material performance as well as economic benefits. Before application it is recommended to carefully stir the material, without creating air bubbles. The substrate must be free of dust, loose particles, oils and release and curing agents. The residual moisture after applying Murasan Surface 700 Primer must be lower than 3%. The optimal substrate temperature for application is 40-50°C. After application and before UV hardening, the layer of Murasan Surface 700 Coat must be dried using an IR-NIR dryer. Any residual moisture during UV hardening disrupts the cross-linking of present polymers and lowers the quality of finished product. For hardening it is recommended to use UV lamps with 1500 mJ/cm<sup>2</sup> energy output. The quantity and application conditions should be determined by preliminary laboratory tests.

Concrete products can be stacked immediate after UV hardening. For best visual appearance, PVC spacing granules are recommended.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	1.04	± 0.02 kg/dm <sup>3</sup>
Consumption	g/m <sup>2</sup>	50 - 150	substrate-dependent
Type of admixture	Surface protection		
Designation of admixture	Murasan Surface 700 coat		
Colour	white		
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. [2400022918]