



# Murasan Surface 700 Coat

## Coating for Murasan Surface 700 system

### Key features

- 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 notes

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 de-icing 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 properties of Murasan Surface 700 Coat

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	approx. 1.04	± 0.02 kg/dm <sup>3</sup>
Recommended consumption	g/m <sup>2</sup>	50 – 150	depends on the surface structure

### Product characteristics

Type of product	Surface protection
Name of product	Murasan Surface 700 Coat
Color	White
State	Liquid
Storage	Store in sealed original packaging in dry environment. Protect from frost and direct sunlight. Shelf life 12 months when storage conditions are met.
Form of delivery	30 l can 200 l barrel 1000 l container

**Note:** The information on this technical data sheet is based on our experience and 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, the specific application and especially to 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 such a review, 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.

Issue 02/19. This data sheet has been technically revised. Previous versions are now duly superseded and may no longer be applied. Any further technically revised edition supersedes this version, rendering it null and void.