



# Murasan Surface 510 White

Film-forming surface protection for white concrete goods

## Key features

- white cement concrete
- film-forming
- silky smooth surface
- minimized water absorption
- reduced efflorescence
- protection against environmental degradation
- increased frost protection
- water repellent surface
- easy cleaning
- no yellowing

## Areas of application

- semi-dry concrete goods precast (paving blocks, pavers, palisades, curbs etc.)
- concrete made out of white cement
- both wet side and dry side of production

## Application notes

Murasan Surface 510 White is a film-forming surface protection system specially developed for concrete products made out of white cement. Its high transparency and resistance against yellowing guarantees that any white concrete surface stays brilliant and stain-free for long time.

Liquid water is one of the main enemies of a good looking concrete surface. When allowed to freely migrate between the concrete element and surrounding environment, water can cause series of both mechanical and visual issues. The phase change of water to ice is accompanied by roughly 9% expansion in volume, which can cause a pressure of up to 200 MPa. Water is also a carrier that allows numerous corrosive water-soluble elements to freely enter the concrete. Some concrete degrading reactions take place only in presence of liquid water. Moss, algae and plant roots are another common water-related cause to both visual and mechanical degradation of concrete elements. When the environmental humidity decreases

and the diffusion direction turns, water carries soluble salts to the concrete surface and then leaves them there in the form of secondary efflorescence.

All these negative effects can be mitigated with Murasan Surface 510 White. It penetrates into the substrate and seals all pores and capillaries close to the surface. On top of that Murasan Surface 510 White creates a seamless smooth surface with significantly increased water contact angle for water, making it effectively hydrophobic. This ensures that no pollutant can adhere to the surface and can be easily washed off. This includes food, drinks and oils.

Murasan Surface 510 White is resistance against aggressive chemicals, abrasion, UV radiation and does not yellow over time. Before application, the surface must be cleaned of any impurities including oil, dust and release and curing agents. The best results are achieved when applied in a uniform layer with a suitable spraying system.



### Technical properties of Murasan Surface 510 White

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>	100 – 140	depends on the surface structure

### Product characteristics

Type of product	Surface protection
Name of product	Murasan Surface 510 White
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.