



# Murasan Color P White

White powder pigment for coloring or brightening of concrete

## Key features

- high-grade inorganic titanium oxide powder
- brighter and more pastel concrete colors
- ready-to-use
- rapid dispersion in concrete mixture
- uniform and reliable color distribution
- chemically resistant
- no color change due to weather and UV radiation

## Areas of application

- cement and lime based mineral construction materials
- preferably for concrete based on white cement
- precast concrete
- concrete goods production (paving stones and tiles, palisades, noise barriers etc.)

## Application notes

Murasan Color P White is a titanium dioxide based white pigment powder for coloring or brightening of mineral construction materials, especially concrete goods. For truly bright white color, the use of white cement and washed, light colored aggregate is necessary. When used with grey cement and/or colored concrete, Murasan Color P White brightens the overall appearance, making the color more pastel.

The final concrete color is influenced by several factors. The most obvious one is pigment dosage. For Murasan Color P White, we recommend dosage of 1-5% of binder by weight. Higher dosage usually doesn't yield proportional color improvement. The total amount and shade of the binder component (cement, fly ash and other fine additives) can influence the color tone. Excess mixing water causes increased surface porosity, which changes the way light reflects off the surface and leads to more washed-out colors. Last but not least, the quality of compaction and curing of colored concrete can improve the color uniformity and intensity.

It is recommended to add Murasan Color P White to the dry aggregate (sand and gravel) before the addition of cement and water and dry mix for at least 25-40 seconds or until all visible pigment agglomerates disappear. This guarantees the best possible pigment distribution and therefore color intensity and uniformity.

This product is not classified as hazardous according to the EC directives, regulations on hazardous substances and forwarding instructions. The generally accepted precautions for handling chemicals must be followed. The corresponding Material Safety Data Sheet is available upon request.

Optimal pigment type and dosage should be determined experimentally via preliminary laboratory tests.



### Technical properties of Murasan Color P White

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	4.0 – 5.0	depends on color
Recommended dosage	g	10 – 50	per kg of cement
Max. chloride content	weight %	0.10	
pH	-	8.0 ± 2.0	10 g of pigment in 100 g of water
Usability	°C	> 1	

### Product characteristics

Product type	Powder pigments for coloring concrete acc. to EN 12878
Product name	Murasan Color P White
Color	White
State	Solid
Homogeneity	Homogenous
Chemical base	Titanium(IV) oxide
Shelf life	Approximately 24 months when storage conditions are met.
Storage	Store under cover in dry environment. Protect from direct sunlight and extreme temperatures.
Form of delivery	25 kg bag 500 kg FIBC 1000 kg FIBC

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

**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 10/19. 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.