

Murasan Color P

Powder pigments for colouring of concrete acc. to EN 12878



PRODUCT PROPERTIES

- inorganic high-grade metal oxide powders
- intensive black, red, yellow, orange, brown, white, blue and green colours
- ready-to-use
- rapid dispersion in concrete mixture
- uniform and reliable colour distribution
- chemically resistant
- no colour change due to weather and UV radiation

AREAS OF APPLICATION

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

APPLICATION ADVICE

Murasan Color P is a range of metal oxide based powder pigments for colouring of mineral construction materials, especially coloured concrete goods. It is available in eight basic colours – black, red, yellow, orange, brown, white, blue and green. For most colours, multiple different shades are available.

For truly vivid colours, the use of white cement and washed, light-coloured aggregate is recommended. This is true especially for Murasan Color P White, Murasan Color P Blue and Murasan Color P Green.

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

It is recommended to add Murasan Color P 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 colour 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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	4 - 5	
Recommended dosage range	g	10 - 50	per kg cement
Chloride content (maximum)	%	0.1	mass fraction
Application conditions	°C	> 1	
PH value		3 - 10	depends on colour
Type of admixture	Powder pigments for colouring concrete acc. to EN 12878		
Colour	black, red, yellow, orange, brown, white, blue, green, see colour chart or sample		
Form	pulverous		
Delivery form	25 kg bag 500 kg FIBC 1000 kg FIBC		
Storage	Can be stored in cool and dry conditions for at least 24 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. [2300018677]