

# Murasan Color L

Liquid pigments for coloring of concrete acc. to EN 12878



## PRODUCT PROPERTIES

- homogenous suspension of inorganic high-grade metal oxides
- intensive black, red, yellow, orange, brown, white, blue and green colours
- easy and reliable colour control
- extensive range of colour options
- short mixing time
- ready-to-use
- chemically resistant
- no colour change due to weather and UV radiation

## AREAS OF APPLICATION

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

## APPLICATION ADVICE

Murasan Color L are ready-to-use liquid pigments for colouring of concrete and other mineral construction materials. An extensive range of black, red, yellow, orange, brown, white, blue and green colour shades is available.

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

The final concrete colour is dependent on a number of factors. First of them is pigment dosage. For Murasan Color L, the recommended dosage is 4-8 % of binder by weight. Volumetric dosing is not advised. The amount of binder and its colour tone can influence the final colour as well. 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 L to dry aggregate (sand and gravel) before the addition of cement and water and dry mix for at least 25-40 seconds. This guarantees the best possible pigment 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.

Before every use, Murasan Color L should be homogenized using agitation or circulation.

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

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	1.45 - 2	depends on colour
Recommended dosage range	g	40 - 80	per kg cement
Chloride content (maximum)	%	0.1	mass fraction
PH value	-	5 - 11	10 g of pigment in 100 g of water, depends on colour
Application conditions <sup>1)</sup>	°C	> 1	agitate or circulate before use

1) at - 8° C with optional winter additiv

Type of admixture	Liquid pigments for colouring concrete acc. to EN 12878
Designation of concrete admixture	Murasan Color L
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Colour	black, red, yellow, orange, brown, white, blue, green, see colour chart or sample
Form	Liquid, slurry
Delivery form	25 kg jerry can 200 kg barrel 1000 kg container
Storage	Can be stored in cool and dry conditions for at least 6 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. [2300018676]