

PRODUCT DATA SHEET

SikaColor®-101

Coloring pigment for concrete and cementitious systems

DESCRIPTION

SikaColor®-101 is powdered coloring pigments based on metallic oxides for cementitious systems. Suitable for use in hot and tropical climatic conditions.

USES

SikaColor®-101 can be used to color cast-in-place, precast, concrete floor slabs, walls, steps, sidewalks, curbs, columns, arches, blocks, pavers, and other decorative objects.

FEATURES

- No special mixing techniques, no special molds.
- Will not be affected by steam curing.
- Colors throughout the whole of a concrete mass.
- Reduced maintenance cost.
- Shall be dosed manually.
- Not affected by other admixtures.
- No adverse affect on setting times and other mechanical properties such as compressive strength, tensile strengths or freeze/thaw resistance.
- Will not delay or accelerate concrete setting time.

CERTIFICATES AND TEST REPORTS

SikaColor®-101 complies to BS 1014

PRODUCT INFORMATION

Composition	Metallic oxide
Packaging	Available in 10 kg & 20 kg packs.
Appearance and colour	Fine free flowing colored powder. Available in Red, Yellow, Black, White and Orange colors. Green color on special orders only.
Shelf life	24 months from the date of manufacturing once stored properly.
Storage conditions	SikaColor®-101 coloring pigments should be stored at temperatures between 4°C to 50°C. Store under cover out of direct sunlight and away from sources of flame. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, consult Sika's Technical Services Department.
Total chloride ion content	<0.1%

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaColor®-101 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.

APPLICATION INFORMATION

Recommended dosage

1 kg–2 kg per 50 kg of grey cement depending upon the shade required. While using white cement, pastel shades can be obtained with an addition of as little as 0.5% by weight of cement. Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.

Compatibility

SikaColor®-101 coloring pigments are compatible with most admixtures used in the production of quality concrete. Mineral additives may affect the color and should be varified for needed adjustments. All other admixtures should be dispensed into the concrete separately. The use of calcium chloride based accelerators are not recommended in colored concrete. Final colour and texture should be verified at projectsite after the curing of colored concrete / mortar.

Dispensing

When dosing by hand, measure the aggregate and cement then sprinkle the correct dosage of SikaColor®-101 on the heap. All the dry ingredients should be mixed first then gauged water and other admixtures to be added in the normal manner. When mixing by machine, place the aggregates and cement in the mixing drum, add the SikaColor®-101 and mix dry for atleast 30 seconds. Then add gauging water and mix as normal.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

The final color and appearance obtained at the jobsite will be influenced by concrete composition, surface finishing technique, timing, and curing compound/sealer selection. Concrete composition variations that can impact color include cement type and color, aggregate selection, and the use of pozzolans such as slag or fly ash. Differences in sealer or curing compound type, such as water or solvent-based, or if no sealer is used, can also influence final appearance. Finishing techniques will influence final concrete appearance. Different tools such as wood floats, magnesium trowels, hard steel trowels, brooms, and edging tools, will each influence color, surface texture, sealer penetration, and final cured concrete appearance differently. Do not change tool types once work has begun. Changes in water content and water-to-cement ratio, both in the mix and on the concrete surface during finishing, can influence the final surface color. Mix designs that develop excessive bleed water can float non-uniform cement/pigment ratios can lead to uneven or weak coloring.

Once mix designs are established, do not add water to alter concrete plastic properties. Do not add water to loosen partially cured concrete. Do not use “watering” sprinklers during the colored concrete cures, or use wet brooms and tools while finishing. Any of these will likely result in inconsistent concrete color.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika Gulf B.S.C. (c)

Tel: +973 177 38188

Email: info@bh.sika.com

Sika Kuwait Cons. Mat. & Paints Co WLL

Tel: +965 22 282 296

Email: sika.kuwait@kw.sika.com

Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC

Sika International Chemicals LLC

Tel: +971 4 439 8200

Email: info@ae.sika.com

Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for

Manufacturing LLC

Riyadh / Jeddah / Dammam / Rabigh

Tel: +966 9200 22167

Email: info@sa.sika.com

Web: gcc.sika.com

Sika LLC - Oman

Sika MB LLC

Tel. +968 22 826 500

Email: info@om.sika.com

Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
Sika MB LLC
Sika International Chemicals LLC
Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

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