



PRODUCT DATA SHEET

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COLOURED CONCRETE FINISHING

Sika® Colorplete®

MINERAL, PIGMENTED, SURFACE HARDENER

Description Sika® Colorplete® is a premixed, mineral, coloured floor hardener of premium quality, specifically designed for incorporation into the surface of freshly placed concrete slabs. It provides both a decorative coloured effect and increased wear and abrasion resistance. Sika® Colorplete® consists of selected natural grades of mineral aggregates, pure metallic oxide pigments, pre-blended wetting agents and cement. It is factory controlled, blended, premixed and ready-to-use. The incorporation of Sika® Colorplete® into the working surface of a concrete slab greatly increases the surface strength, wear resistance and abrasion resistance while densifying the surface and making it less permeable. Sika® Colorplete® surface hardeners provide a durable wearing surface in a variety of pleasing colours without the maintenance costs associated with painted floors.

Where to Use Sika® Colorplete® is designed for use in industrial and commercial flooring exposed to moderate levels of abrasion, impact and loading:

- Showrooms.
- Supermarkets.
- Warehousing.
- Clean manufacturing.
- Service areas.
- Aircraft hangars (small to medium size planes).
- Convention centres.
- Other areas where attractive coloured, abrasion, resistant flooring is required.

Advantages

- Easy application.
- High resistance to abrasion.
- Improves impact resistance.
- Higher surface density than plain concrete.
- Improves resistance to oils, greases, and some industrial chemicals.
- Saves time and labour costs.
- Lowers maintenance requirements.
- Reduces surface dust.
- Provides a slip-resistant surface when properly finished.
- Canadian Food Inspection Agency acceptance. (Tile Red and Pearl Grey)

Technical Data	
Packaging	25 kg (55 lb) bag
Colour	French Grey, Pearl Grey, Tile Red and Special colours (on request) <i>Refer to current price list for availability.</i>
Yield	
Dressing rooms, storage rooms, light duty manufacturing	5 kg/m ² (1 lb/ft ²)
Medium-duty manufacturing, service bays, garages, warehouses	5 - 6 kg/m ² (1 - 1.2 lb/ft ²)
Heavy-duty manufacturing, machine areas, roller rinks	7 kg/m ² (1.4 lb/ft ²)
	Note: Pearl Grey will provide optimal results with a 6 - 7 kg/m ² (1.2 - 1.4 lb/ft ²) coverage.
Shelf Life	1 year in original, unopened packaging. Store dry, ensuring that product is not exposed to rain, condensation or high humidity.
Application Temperature	16 to 30 °C (61 to 86 °F)
Properties at 23 °C (73 °F) and 50 % R.H.	
Hardness (Moh's scale)	6.5 - 7
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>	

How to Use **Cold Weather:** Where required, space heaters must be properly vented to avoid floor surface damage caused by carbonation or contamination.

Hot Weather: Adjustments to application procedures may be required to offset rapid setting of the concrete surface before applying Sika® Colorplete® finishes. Contact your Sika Canada Representative for further information regarding hot weather installations.

Application Sika® Colorplete® is applied to the surface in 2 or 3 broadcasts, each being floated using power equipment. The surface is then power-trowelled and hand trowelled as required to a satisfactory finish. Apply the first broadcast of Sika® Colorplete® as soon as concrete is firm enough to support the weight of workmen and their equipment and no standing water is present on the surface. Use up to 2/3 of the total material in the first application. Treat areas adjacent to walls and columns first.

Spread the material evenly by broadcasting at right angles in two passes close to floor level. Do not broadcast from a stationary position to avoid non-uniform distribution of the hardener. Allow Sika® Colorplete® to absorb surface moisture. Float the broadcasted material promptly. Work wall, column and door areas first. Avoid excessive floating, but ensure that the broadcast application is completely wetted and incorporated into the base slab. Follow immediately behind first floating, apply the remaining material, and install as above. A third power floating may follow for added compaction, if required.

Note 1: If a coarse, non-slip finish is required, do not proceed with further floating or trowelling operations after second floating, but allow the surface to cure.

Note 2: For applications greater than 5 kg/m² (1 lb/ft²), apply hardener in 3 broadcasts. First application should be 50 % of the total required material and 25 % in each of the subsequent applications.

Proceed with power trowelling as soon as the floor surface begins to lose moisture sheen and stiffens, setting the trowel blades at a flat angle. As floor stiffens further, proceed with second trowelling, with trowel angle raised. When a minimum amount of cement paste clings to the trowel edges, proceed with final trowelling. Eliminate trowel marks, pinholes or any other flaws.

Curing As soon as final troweling is completed and applicator and equipment cannot damage the surface, apply as per printed directions, one or more coats of Sika® Florseal WB-18 & -25 using a low-pressure spray. Protect finished surface from damage by traffic or trades until sufficiently hardened.

Clean Up Clean all tools and equipment promptly with water. Remove hardened product mechanically.

Limitations

- Important: protect stored material from exposure to rain, condensation and high humidity as moisture may penetrate packaging, causing lumps.
- For best results, condition product to 18 to 29 °C (65 to 84 °F) prior to mixing and installation. Lower temperatures may result in slower strength development and longer cure times.

Sika® Colorplete® is not recommended for:

- Exposure to oxidizing, mineral and organic acids.
- Steel wheeled vehicular traffic.
- Application on slabs containing more than 3 % entrained air content.
- Temperatures above 30 °C (86 °F) may cause adverse application conditions in the base slab. Adjustments to application procedures must be made to offset rapid setting before placing Sika® Colorplete® finishes.
- Common industrial stains such as rubber tire marks, etc., tend to be more noticeable with lighter colour.
- Certain admixtures such as Calcium Chloride and/or admixtures containing Calcium Chloride or high range water reducing admixtures should not be used in concrete on which hardeners are to be applied.
- The use of fly ash, slag, silica fume, or other concrete additives may also create finishing problems and may alter final colour from that which was selected from colour charts or samples. Contact your Sika Canada Representative for advice.
- **Note:** Final colours may vary from colour standards according to concrete mix design, brand of cement, and aggregate source. It is therefore recommended that a sample be applied on site using specified concrete and application rates for the architect's approval and to set a standard for the project.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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