

## PRODUCT DATA SHEET

# Sikafloor® MetalTop-410

(formerly MTop 410)

Non-oxidizing, Metallic-aggregate, Dry-shake Surface Hardener

## DESCRIPTION

Sikafloor® MetalTop-410 is a thick, non-rusting, metallic aggregate surface hardener for industrial floors requiring added abrasion and impact resistance in industrial facilities.

Sikafloor® MetalTop-410 is a premixed, ready to use powder comprised of specially processed nonferrous metallic aggregates, cements, pigments and admixtures, designed as a dry shake over a freshly floated concrete floor or floor screed to obtain a highly abrasion resistant monolithic finish.

## USES

- Areas that can benefit from metallic-aggregate surface, but because of constant or frequent wet conditions, require that the metallic-aggregate be non-oxidizing
- Indoor installations where requirements include durability at a reasonable cost

- Industrial floor surface subject to moderate or heavy traffic and abrasion
- Areas where surface dusting will affect the purity of manufactured products or the performance of precision machinery
- Areas frequently subject to deicing salts (Warehouses & machineries, rolling stocks, steel mills, printing, foods, and etc.)

## FEATURES

- Abrasion resistant floor surface
- Non-dusting and high-strength floor surface
- Improves resistance to penetration by oil, grease and many other industrial chemicals
- Easy to repair, reduced shutdowns
- Non-rusting floor
- Non oxidizing
- Easily cleaned and maintained

## CERTIFICATES AND TEST REPORTS

JC/T906-2002(2017)

## PRODUCT INFORMATION

Packaging	Available in 25 kg bags.
Appearance and colour	<p>Powder, please consult your local sales for minimum order quantities and colours</p> <p>Remark Applied samples are indicative only and may differ from the actual finishes floor slab. The finished color shall thus be based on the actual site sample and conditions.</p>
Shelf life	12 months from date of manufacture
Storage conditions	Stored in tightly sealed original packaging in a dry and enclosed place between 5°C-30°C.

## TECHNICAL INFORMATION

Abrasion resistance	≥350%	(JC/T906-2002)
Compressive stiffness	≥90MPa	(JC/T906-2002)

## APPLICATION INFORMATION

Consumption	The standard application rate is 5kg/m <sup>2</sup> . The standard thickness is 1 - 2mm. (Consult local sales representative for a specific recommendation to meet individual needs.)
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## SYSTEM INFORMATION

System structure	Substrate	Fresh concrete slab (See substrate quality below)
	Dry shake	Manual or machine application of Sikafloor® MetalTop-410 Levelling of surface by means of power trowel or laser screed. Final smoothing with power trowel.
	Curing compound	Sikafloor® series products
	Use products mentioned above as indicated in their respective Product Data Sheets.	

## 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.

## LIMITATIONS OF USE

Areas where floor surfaces will be exposed to acids, their salts or similar materials which seriously and rapidly attack cement.

## IMPORTANT CONSIDERATIONS

Over trowelling with mechanized equipment can result in burnish (shiny finish).  
The importance of concrete quality must not be underestimated since the Floor Hardener will be adversely affected if quality is poor. It is recommended that the concrete specification guidelines offered by Sales representatives be considered.  
Colored floors will not always exhibit a totally uniform color surface concrete consistency since concrete consistency laborers etc., will all contribute to this. No deviation on coverage rates must be allowed in order to further minimize consistent uniformity.  
Floor Hardener can only peel off or delaminate if applied too late i.e. onto concrete that is too dry etc. Concrete supplier must ensure that levels of slabs are correct since the Floor Hardener will assume the same levels as the slab is. If slab is uneven then the Floor Hardener will also be uneven.

## 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 con-

tains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### NOTES ON INSTALLATION

Concrete mix should be of a suitable quality which complies with internationally accepted standards. Concrete should ideally exhibit a slump of between 100 - 150 mm without bleeding or segregation and should contain no more than 3% air at time of placing. Concrete should be placed only where it is protected against all the elements (wind, rain, sun etc) and ideally at ambient temperatures of less than 32° C. Floor hardener to be applied should be calculated in advance of application and required amount of material should be placed next to slab where the hardener will be applied.  
All tools and equipment should be available on site and checked before application commences.  
Application of Floor Hardener is deemed ready to start, after vibrating, leveling and excess moisture is removed. No bleed water should be present since this will negatively affect the process.

### APPLICATION

Broadcast evenly by hand 2/3 of the specified coverage rate Sikafloor® MetalTop-410 onto the wet concrete surface. Once the floor hardener has darkened uniformly indicating that absorption has taken place, then float the floor hardener into the wet surface with a wooden float ensuring that material is worked into the surface. Always apply material along edges and wall since these areas will dry more rapidly than the actual slabs.  
After a period following the first application apply the second broadcast in the same manner and floor in again using a wooden float.

Note: The waiting period between the first and second broadcast will be determined by the weather conditions and the consistency of the fresh concrete. Final finishing is carried out by meshes of mechanized trowelling equipment and takes place once the slab is firm enough to take foot traffic. The use of both pan floats floors and blades is recommended to obtain the desired smooth finish.

Immediately upon completion of final finish, apply Masterkure curing compound at the specified rates. Close off and protect area for a minimum of 48 - 72 hours.

## 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.

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### **PRODUCT DATA SHEET**

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