BUILDING TRUST

PRODUCT DATA SHEET

SikaScreed®-330 MetalTop (ID)

Heavy duty high strength iron aggregate topping

DESCRIPTION

SikaScreed®-330 MetalTop (ID) is an iron aggregate topping designed to provide industrial floors with extra heavy-duty protection against abrasion and impact. Applied over prepared hardened concrete it gives significantly longer service life than either normal high strength concrete or natural aggregate toppings.
SikaScreed®-330 MetalTop (ID) has a lower modulus of elasticity than other toppings of equivalent compressive strength which increases Impact resistance and total energy absorbing capacity (toughness).

USES

- Areas subject to heavy abrasive traffic, impact and continuous wear, such as loading docks, aisles, waste transfer facilities, truck or tractor repair areas, and mill scale sluiceways.
- Areas where safety authorities have deemed other floor surfaces hazardous because of excessive wear, dangerously buckled steel plates, etc.
- Mining workshops with tracked vehicles.
- Floors with scraper blades in constant contact.

SikaScreed®-330 MetalTop (ID) is not recommended for areas where steel plate has worn through in less than one year, or where the floor surface is exposed to chemicals that would affect a concrete floor. For applications under these service conditions consult Sika Indonesia about their range of chemical resistant flooring systems, such as Sikafloor® Epoxy Series and Sika® Ucrete® Series.

FEATURES

- Ease of application – Extended working life at screedable consistency (130 to 180 mm slump) allows ample time to place, float and finish. Rotary compactors are not required.
- Heavy duty, durable industrial floor topping – Formulated to be applied at a thickness of 13 to 40 mm, provides compressive strengths equivalent or superior to no-slump and other toppings.
- High abrasion resistance – Eight times more wear resistance than plain concrete.
- Greater toughness – Energy absorbing capacity is significantly greater than normal high strength concrete or natural aggregate toppings.
- Increased impact resistance – Four times greater than plain concrete.
- High density surface – Resists oil and grease penetration, reduces dusting and absorption.
- Easier to clean – Lower maintenance costs.
- Protects against joint deterioration – Iron armouring eliminates the risk of dangerous protruding or buckled joints from steel tiles, minimises damage to pro-duction goods and increases the life of materials handling equipment.

PRODUCT INFORMATION

Packaging	25 kg bag
Shelf life	9 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C.

Appearance and colour	Cement grey powder

TECHNICAL INFORMATION

Compressive strength	1 day	~40 N/mm²	(Standard)
	3 days	~50 N/mm²	
	7 days	~65 N/mm²	
	28 days	~80 N/mm²	

Note : Typical compressive strengths for 50 mm cubes, cured at +21 °C, mixed to the recommended consistency using 2.4 litres of water per 25kg bag.
Reasonable variations from the results shown here may be experienced as a result of jobsite conditions. Mix an entire bag of SikaScreed®-330 MetalTop (ID) when preparing cubes for strength tests.

SYSTEM INFORMATION

System structure

Application	Product
Bonding Agent	Epoxy/SBR based products
Screed	SikaScreed®-330 MetalTop (ID) + clean water

APPLICATION INFORMATION

Consumption	2.4 liters of water in 25 kg bag of SikaScreed®-330 MetalTop (ID) and provides 7.7 liters of screedable topping. Because the depth of surface preparation may vary from design it is best to overestimate the quantity required by 10-20% for the first stages, until actual usage is established.
Layer thickness	13 - 40 mm
Ambient air temperature	+10 °C to +35 °C.
Substrate temperature	+10 °C to +35 °C.

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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- Prepare substrates and remove separation and sinter layers mechanically by selecting and using abrasive blast cleaning, grinding or planing / scarifying equipment for the type of substrate.
- The final texture of the substrate must be open textured and gripping.
- Remove weak cementitious and levelling layers. Surface defects such as blow holes and voids must be fully exposed using the surface preparation equipment.
- Use products from the Sikadur® range of materials to fill cracks. Contact Sika Technical Services for additional information on products for levelling and repairing defects.
- Use industrial vacuming equipment to remove all dust, loose and friable material from the application surface before applying the product.
- To improve the adhesion and provide a pore free surface for subsequent coverings, use suitable bonding agent.
- Used SBR, Acrylic Polymer or Epoxy based bonding agent, depending on traffic conditions.

MIXING

Important:
Do not add more than 2.4 liters of water to 25 kg of powder. Use only drinkable water for mixing.
Important: Do not mix or blend with other binders.
Important:
In case of higher water temperature, the water could be cooled down by using clean ice. Requirement: Use an electric single or double paddle mixer (< 600 rpm) with helical disc-shaped mixing paddle.

- Pour ~2.4 liters of clean/drinkable water into a clean mixing container.
- Mix the water slowly while gradually adding the complete bag of powder.
- Mix continuously for ~3 minutes to achieve a smooth, uniform mix. If necessary, add more water to achieve the required consistency.
- To allow entrained air to escape and mature.
- Mix for a further ~15 seconds. Pour the mixed product onto the prepared concrete substrate.

APPLICATION

Please refer to method statement for SikaScreed®-330 MetalTop (ID) for complete application and curing instructions.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

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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