

## PRODUCT DATA SHEET

## SikaEmaco® T 288 ID

## RAPID SETTING HIGH STRENGTH MICRO CONCRETE FOR TRAFFIC-ABLE SURFACES

## DESCRIPTION

SikaEmaco® T 288 ID when mixed with water is a fast setting pourable micro concrete for rapid repairs to concrete roadways.

SikaEmaco® T 288 ID is suitable for thick section repairs.

## USES

SikaEmaco® T 288 ID is the ideal material for horizontal structural repairs where the thickness of repair is 35 mm and 150 mm and fast return to service is required.

Typical applications are:

- Emergency reinstatement of local patches on roadways, airport aprons and runways, carparks and other trafficable areas where traffic disruption must be minimized.
- Maintenance of civil structures, surfaces floor repairs and horizontal load bearing areas.
- Reinstatement of honeycombed or defective structural concrete.

## CHARACTERISTICS / ADVANTAGES

- **Rapid high early strength** – Rapid commissioning of the repaired areas and return to service in 4 hours.
- **High final strength** – Strong and durable repairs in load situations.
- **Pourable** – fast and easy to place.
- **Chloride free** – does not add to chloride load of structure.
- **Shrinkage compensated** - Volume stable in wet and hardened state reducing cracking tendency.
- **One component**, factory made only addition of water - Uniform predictable performance even in remote situations.

## PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Powder / Grey
Shelf Life	9 months from the date production if stored in undamaged and unopened original sealed bags.
Storage Conditions	Store in dry condition between +10 °C - +35 °C.
Density	Approx. 2.3 kg/L (at +20 °C)

## TECHNICAL INFORMATION

Compressive Strength	2 hours	~20 N/mm <sup>2</sup>	(ASTM C-109)
	4 hours	~40 N/mm <sup>2</sup>	
	1 days	~50 N/mm <sup>2</sup>	
	3 days	~55 N/mm <sup>2</sup>	
	28 days	~60 N/mm <sup>2</sup>	
Tensile Adhesion Strength	28 days	~1.5 N/mm <sup>2</sup> Concrete failure	(ASTM C1583/C1583M)
Mixing Ratio	2.75 L per 25 kg bag (water per powder = 11% by weight)		
Layer Thickness	Recommended thickness is 35 mm - 150 mm		
Product Temperature	+5 °C to +30 °C		
Substrate Temperature	+5 °C to +35 °C		
Application Time	~20 minutes		
Flowability	Flowability	> 200 mm	(ASTM C-230)
Setting Time	~40 minutes		

## SYSTEM INFORMATION

### BASIS OF PRODUCT DATA

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

### ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

### APPLICATION INSTRUCTIONS

#### SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete must be fully cured with a minimum direct tensile strength of 1.5 N/mm<sup>2</sup>.
- All loose traces of concrete or mortar, dust, grease oil, etc. must be removed.
- Damaged or contaminated concrete shall be removed to obtain a keyed aggregate exposed surface.
- Non-impact/vibrating cleaning methods, e.g. grit or high-pressure water blasting are recommended.
- Cut the edges of the repair vertically to a minimum depth of 10 mm. Clean all exposed reinforcement to a minimum grade of Sa2 according to ISO 8501-1 / ISO 2944-4. Ensure back of reinforcing bar is also clean. In case of chloride contamination of the concrete, or when depth of cover is less than 5 mm should the re-inforcement be protected by using SikaTop® Armatec®-110 EpoCem®.
- Where reinforcing bars are corroded, cut back the concrete to at least 20 mm behind the reinforcing bars. Grit blast around the reinforcing bars to remove corrosion products. Replace the affected part of reinforcing bar if the diameter after grit blasting is found reduced by more than 20% of the original diameter.

meter on the advice of the structural engineer responsible for the works.

#### FORMING

The forms must be of good quality, treated with a chemical release agent such as Sika® Separol-10 for smooth release, provided with water drain holes, strong and well braced to withstand the fluid pressure of the mortar until it hardens. For best results in patches bigger than 500 mm<sup>2</sup> the use of additional reinforcement is required. Ensure the reinforcement is correctly anchored to the base concrete and the top of the reinforcement is at least 25 mm below the final surface of the repair.

#### MIXING

Only full bags are mixed. Damaged or opened bags should not be used. Mix SikaEmaco® T 288 ID in a forced action pan mixer, or with a helical paddle attached to a low speed (300-600rpm) mixer for 3 minutes until a lump free, thixotropic consistency is achieved. Only use clean water. Mixing water needed: 2.75 litres per 25kg bag. Allow the mortar to rest for 2 - 3 minutes and then remix briefly before applying.

#### APPLICATION

##### PRIMING CONCRETE

No special primer is required. To obtain extra strong bonding, the damp substrate can be primed with a slurry brush coat of SikaEmaco® T 288 ID (2 parts powder to 1 part water).

##### MORTAR APPLICATION

The minimum temperatures must be maintained during application and for at least 24 hours thereafter for optimum curing of the product. The prepared substrate should be pre-soaked, preferably for 24 hours, but at least 2 hours before applying SikaEmaco® T 288 ID ensure all water is removed from formwork prior to

installation and formwork is resealed. SikaEmaco® T 288 ID should be poured into the prepared formwork until the void is filled. The use of a tremmie tube is recommended if the repair is deep and vertical. Apply to the desired layer thickness and level using a screeding bar, trowel or wooden board. Can be applied in thicker layers in smaller patches or where additional reinforcement is present. Smoothing with a trowel or finishing by float or sponge can be done as soon as the mortar has begun to stiffen.

### CURING TREATMENT

Wet cure for a minimum 3 days with wet hessian plastic sheet or apply a curing compound (Antisol).

### CLEANING OF TOOLS

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

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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