

# PRODUCT DATA SHEET

## Monoset Concrete

### POLYMER MODIFIED WATERPROOF FAST-SETTING HEAVY DUTY FLOOR

#### DESCRIPTION

Monoset Concrete is a prebagged polymer modified floor screed designed for repairing existing or laying new floors where fast-setting, high early strength and waterproofing performance is critical. Monoset Concrete is manufactured from a blend of non-shrink cements, rapid hardening fillers and waterproofing additives. Monoset Concrete can achieve a monolithic bond to cementitious substrates and accept heavy traffic within two hours of placement.

#### USES

- Driveways
- Carparks
- Loading bays
- Playgrounds
- Halls

#### CHARACTERISTICS / ADVANTAGES

- High early strength gain
- Reduce down time and disruption
- Single component, just add water
- Conforms to Architectural Services Department Specification
- Conforms to Hong Kong Highways Department specification
- Low VOC

#### PRODUCT INFORMATION

<b>Packaging</b>	30 kg per bag
<b>Appearance / Colour</b>	Concrete grey
<b>Shelf life</b>	6 months from the date of production
<b>Storage conditions</b>	Stored properly in undamaged and unopened original sealed packaging in the dry conditions at temperature range +5°C to + 35°C. Protect from direct sunlight and frost.
<b>Density</b>	Approx. 2300 kg/m <sup>3</sup>

## TECHNICAL INFORMATION

Compressive strength	Age at Test	Monoset Concrete (with aggregate) Typical Performance	Test Method
	2 hours	> 20 MPa	HKHA/MTS Specification Part D Clause 2.1.1
	28 days	> 40 MPa	HKHA/MTS Specification Part D Clause 2.1.1

  

Shear adhesion strength	Age at Test	Monoset Concrete (with aggregate) Typical Performance	Test Method
	28 days	> 22MPa	BS 6319 : Part 4 : 1984

  

Shrinkage	Age at Test	Monoset Concrete (with aggregate) Typical Performance	Test Method
	1-28 days	No cracks between 1 & 28 days	HKHA/MTS Specification Part D Clause 2.1.6

## APPLICATION INFORMATION

Consumption	Approx. 60 packs/m <sup>3</sup> Approx. 40 packs/m <sup>3</sup> (With 20 kg 5-10mm aggregate added per pack)
Ambient air temperature	> 5°C
Application time	Approx. 30 min (at 20°C)

## 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.

## FURTHER INFORMATION

Do not install at less than 25 mm thickness for vehicle traffic.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Mechanically prepare the substrate to provide a structurally sound surface. Remove grease, oil, dirt and deleterious material. Damp surface with clean fresh water. Apply Monoset® Primer (Prepacked) to the dampened substrates.

### MIXING

Dry mix the powder and aggregate with mechanical mixer until homogenous. Add approx. 4.2 litres of water into the mixer and mix all components together until a workable and homogenous mixture is achieved.

### APPLICATION

Once mixed, pour the mixture into place and compact properly by appropriate means. Build up the application thickness to the required level, then close the surfaces with trowel or wood float.

### CURING TREATMENT

Allow the area to cure properly and consult with Sika's Technical Department for curing method in severe

conditions.

## CLEANING OF EQUIPMENT

Clean all tools and equipment with clean water immediately after use.

## 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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### Product Data Sheet

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