

PRODUCT DATA SHEET

Monoset® RXG

Rapid Hardening Polymer Modified Waterproof Concrete

DESCRIPTION

Monoset® RXG is a prepacked polymer modified waterproof concrete designed for repairing existing floors or laying new floors where waterproofing and speed of strength gain is of paramount importance. Monoset® RXG is manufactured from a blend of non-shrink cements, rapid hardening fillers and waterproofing admixtures. Monoset® RXG will achieve a monolithic bond to most cementitious substrates and will accept heavy traffic within two hours of placement. The performance of the product is certified under the Hong Kong Concrete Institute (HKCI) Product Conformity Certification Scheme for Repair Mortars (PCCS-RM) Class S and is suitable for repairs to concrete with a characteristic strength (fcu) up to at least 33 MPa.

USES

- Driveways
- Carparks
- Loading bays
- Roadways
- Bridges

CHARACTERISTICS / ADVANTAGES

- High early strength gain
- Reduce down time and disruption
- Water based low odour formulation
- Excellent waterproofing characteristics
- Conforms to Hong Kong Highways Department specification
- Low VOC

PRODUCT INFORMATION

Packaging	34.75 kg per pack (30 kg bag of powder & 4.75 kg drum of liquid)			
Appearance / Colour	Concrete grey			
Shelf Life	6 months from the date of production			
Storage Conditions	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, moisture and frost.			
Density	Approx. 2300 kg/m ³			
Product Declaration	Characteristics For Repair Mortar (from PCCS-RM Cl. 5.1 Table 1)			
	Test Method	Test Description	Age at Test	PCCS-RM Specification (Class S fcu 33)
				Monoset® RXG Typical Performance
	TM1	Compressive Strength	28 days	≥ 40
				47 MPa

* All of the above data complies with Product Conformity Certification Scheme.

TECHNICAL INFORMATION

Compressive Strength	Age at Test	Monoset® RXG (with aggregate) Typical Performance	Test Method
	2 hours	> 20 MPa	BS 6319 : Part 2 : 1983
	28 days	> 40 MPa	BS 6319 : Part 2 : 1983

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

Shear Adhesion	Age at Test	Monoset® RXG (with aggregate) Typical Performance	Test Method
	28 days	> 22 MPa	BS 6319 : Part 4 : 1984

APPLICATION INFORMATION

Consumption	Approx. 60 packs/m ³ Approx. 40 packs/m ³ (with 20 kg 5–10 mm 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.

FURTHER DOCUMENTS

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

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

Provide structurally sound and clean substrate to receive high strength screed. Ensure the surface is free from grease, oil, dirt and other deleterious material. Soak substrate with potable water. Remove any surface water or puddles before priming. Apply Monoset® Primer.

MIXING

Mix components using drill and paddle or mechanical

pan mixer close to area of use. For application thickness over 25 mm, maximum 20 kg 5–10mm aggregate can be added to each bag of Monoset® RXG powder.

APPLICATION

Trowel apply onto wet or tacky primer. Finish with float or trowel. When bedding, the underside of the component must also be primed. SikaFiber® 155 can be added into the mix to enhancing the flexural strength, please consult Sika Technical salesman for further informations.

CLEANING OF TOOLS

Clean all tools and application 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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