

PRODUCT DATA SHEET

SikaFlow[®]-915 RTA

(formerly MFlow 915 RTA)

High strength thixotropic epoxy bedding mortar for rubber expansion joints

DESCRIPTION

SikaFlow[®]-915 RTA is a high performance, epoxy resin based bedding mortar for use with moulded rubber segmental expansion joints. Suitable for use in hot and tropical climatic conditions.

USES

As a bedding mortar for segmental expansion joints where a low flow, high strength material is required to accommodate high road cambers.

FEATURES

SikaFlow[®]-915 RTA provides excellent resistance to creep and high early and ultimate compressive strengths.

SikaFlow[®]-915 RTA is resistant to oil, synthetic lubricants, water and most chemicals.

- No priming required
- High tensile, flexural and compressive strength
- Excellent adhesion to steel and concrete
- Excellent fatigue resistance
- High resistance to dynamic loads and chemical attack

PRODUCT INFORMATION

Composition	Epoxy resin and selected aggregate								
Packaging	Supplied in 13.5 L units comprising of: <table><tr><td>Base</td><td>2.78 kg</td></tr><tr><td>Reactor</td><td>0.93 kg</td></tr><tr><td>Aggregate</td><td>25 kg</td></tr><tr><td>Total Pack Weight</td><td>28.71 kg</td></tr></table>	Base	2.78 kg	Reactor	0.93 kg	Aggregate	25 kg	Total Pack Weight	28.71 kg
Base	2.78 kg								
Reactor	0.93 kg								
Aggregate	25 kg								
Total Pack Weight	28.71 kg								
Shelf life	12 months from production date								
Storage conditions	Stored properly in air-conditioned environment in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture.								
Density	~2.1 kg/l (mixed, at 25°C) (ASTM C905-79)								

TECHNICAL INFORMATION

Resistance to impact	Superior to concrete		
Compressive strength	Strength:	Curing:	(ASTM C579-82, Method B)*
	≥ 20 N/mm ²	12 hours at +25°C	
	≥ 50 N/mm ²	24 hours at +25°C	
	≥ 65 N/mm ²	12 hours at +40°C	
	≥ 80 N/mm ²	24 hours at +40°C	
	≥ 90 N/mm ²	14 days at +25°C	
	*Modified 50 mm cubes		
Tensile strength	~14 N/mm ²	(ASTM C307-83)	
Chemical resistance	SikaFlow®-915 RTA resists non-oxidising mineral acids and salts, caustics, dilute oxidising acids and salts, plus some organic acids and solvents. For more specific information contact your Sika Technical Department.		

APPLICATION INFORMATION

Layer thickness	Min. 30 mm Max. 300 mm Note: For above 100 mm thickness application, please contact Sika Technical Department for application recommendation.
Curing time	Cure time of the grout will depend upon the ambient and concrete surface temperature. Unless the ambient air temperature has been constant for several days the concrete temperature will generally be lower than air temperature.
Application time	~55 min at 25°C ~30 min at 40°C The following chart is a guide for the working time of the fresh epoxy bedding mortar mix at various ambient temperatures. The working time of a SikaFlow®-915 RTA mix begins when the hardener is added to the liquid.

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.
- Internal Reference - Version: MBS_CC-UAE/Flow_915_RTA_01_19/v1/01_24

FURTHER DOCUMENTATION

General Method Statement (GMS)

IMPORTANT CONSIDERATIONS

- A surface thermometer and field judgement should be used to determine actual cure rates. Cured grout should have solid, almost metallic ring when struck lightly with a hammer.

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

SURFACE PREPARATION

Quality of surface preparation has a direct effect on the performance and durability of the system. Concrete surfaces should be sound, dimensionally stable, clean, free from laitance, paint, oil, grease, mould release agent and residual curing compound. Concrete should be clean and dry when SikaFlow®-915 RTA mortar is placed. The surface roughness should be prepared to minimum CSP 10 according to ICRI. New concrete should have a compressive strength of minimum 25 MPa; greater strength is preferred. No primer application needed.

MIXING

Do not split packs or alter the ratio of resin components.

Mix with a heavy-duty slow speed hand mixer. Add the contents of the reactor container to the base component in a suitable clean mixing vessel, ensuring complete transfer of both resin components.

Mix for one minute before slowly adding the aggregate and continue mixing until a soft-mortar consistency is achieved. Do not overmix. Avoid aeration while mixing until the material becomes uniformly blended in colour and viscosity.

APPLICATION METHOD / TOOLS

When using a thin layer, apply the mixed mortar to the prepared surface with a spatula, trowel, (or with hands protected by gloves).

When applying as a repair mortar use some formwork. A smooth finish may be obtained by spraying or brushing the surface with a suitable solvent such as Xylene / Acetone / MEK, approximately 45 minutes after the mortar is placed. Best results can be obtained by smoothing the surface several times just prior to the hardening of the grout surface.

Do not apply SikaFlow®-915 RTA when the contact surfaces are less than 10°C. If the ambient temperature is less than 10°C then artificial space heating may be used.

CLEANING OF EQUIPMENT

Clean tools and mixers with suitable thinner (Xylene / Acetone / MEK). Hardened / cured 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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- Sika Oman Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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