

PRODUCT DATA SHEET

SikaQuick®-1500

VERY RAPID HARDENING CONCRETE REPAIR MORTAR

DESCRIPTION

SikaQuick®-1500 is a one-component, rapid hardening, early strength gaining, cementitious, patching material for concrete.

USES

- Highway overlays and repairs
- Structural repair material for concrete roadways, parking structures, bridges, dams and ramps
- Full depth patching repairs
- Economical patching material for horizontal repairs of concrete and mortar

CHARACTERISTICS / ADVANTAGES

- High early strength
- Specially suited for hot weather applications when extended working time is required
- Open to foot traffic in 4 hours (at 23 °C)
- Epoxy coatings can be applied as early as 6 hours. On site testing is recommended for verification. Please consult coatings manufacturer for recommendations
- Easy to use, labor-saving material
- Easily applied to clean, sound substrate
- Freeze/thaw resistant
- Chloride free

PRODUCT INFORMATION

Packaging	18kg/pail
Appearance / Colour	Gray powder
Shelf life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage conditions	Store dry at 4–35 °C. Protect from moisture. If damp, discard material

TECHNICAL INFORMATION

Compressive Strength	3 hours	10 N/mm ²	(ASTM C-109)
	1 day	20 N/mm ²	
	28 days	40 N/mm ²	
	These values were measured at +23 °C / 50% r.h. w/c = 0.18		
Tensile Adhesion Strength	1.5 N/mm ²		

APPLICATION INFORMATION

Mixing Ratio	Sika Quick 1500 : water = 18kg : 3.2 ~ 4.1L (18~23%)
Layer Thickness	Max. 20mm
Ambient Air Temperature	4~30 °C

Substrate Temperature	4~30 °C	
Pot Life	~ 20 minutes As the temperature will affect the pot life, application temperature: ▪ Above 23 °C will reduce the pot life and slump ▪ Below 23 °C will extend the pot life and slump	
Initial Set Time	~ 60 minutes	(ASTM C-266)
Final Set Time	~ 90 minutes	(ASTM C-266)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete

- Surface must be clean and sound. Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired.
- Be sure repair area is not less than 6.3 mm deep.
- Preparation work should be done by appropriate means. Obtain an exposed aggregate surface with a minimum surface profile of ± 3 mm (CSP-6) on clean, sound concrete.
- To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a pull-off test.
- Saw cutting of edges is preferred and a dovetail is recommended.
- Substrate should be Saturated Surface Dry (SSD) with clean water prior to application. No standing water should remain during application.

Priming

- Reinforcing steel: use Sika® Monotop® 610 (consult PDS).
- Concrete Substrate: prime the prepared substrate with a scrub coat of SikaQuick®-1500 prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

MIXING

- Mechanically mix in an appropriately sized mortar mixer. Wet down all tools and mixer to be used.
- **With water**: Start with 1/2 of water added to the mixing vessel. Add 1 pail of SikaQuick®-1500 while continuing to mix. Add up to another 1/2 of water to achieve desired consistency. Do not over-water.

APPLICATION

- The prepared mortar must be scrubbed into substrate. Be sure to fill all pores and voids. Force material against edge of repair, working toward center.
- After filling repair, screed off excess.
- Allow concrete to set to desired stiffness, then finish.
- Mixing, placing, and finishing should not exceed 20 minutes maximum. To control setting times, cold water should be used in hot weather and hot water used in cold weather.

CURING TREATMENT

- As per ACI recommendations for portland cement concrete, curing is required.
- Moist cure with wet burlap and polyethylene, a fine mist of water or a curing compound meeting ASTM

C-309.

- Moist cure should commence immediately after finishing. If necessary, protect newly applied material from rain.
- To prevent from freezing, cover with insulating material.

IMPORTANT CONSIDERATIONS

- Use only potable water
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32.
- Bonding agents like Sika® Monotop® 610 and others, which cure at a slower rate than SikaQuick®-1500, should not be used. If bonding agents are used, follow cure times for the bonding agents used as a guide prior to putting SikaQuick®-1500 in service. Assure suitability with the manufacturer of the bonding agent.
- Not a vapor barrier

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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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 recommenda-

tions. 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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