

PRODUCT DATA SHEET

Sika® MiniPack Repair Mortar

REPAIR MORTAR

DESCRIPTION

Sika® MiniPack Repair Mortar, is a high performance repair mortar, single component thixotropic cement-based and reinforced with synthetic microfibers and it is supplied ready to use.

USES

Sika® MiniPack Repair Mortar is a repair mortar with an excellent workability and thixotropic adequate for the following:

- Punctual concrete reparations
- Reprofiling and regularization of concrete surfaces.
- Regeneration of damaged areas in both vertical and horizontal surfaces

CHARACTERISTICS / ADVANTAGES

- Excellent workability
- Good adhesion to most building materials (concrete, stone, brick).
- Good dimensional stability.
- Similar thermal expansion coefficient and elasticity modulus to concrete.
- High mechanical resistance.
- Long pot life.
- Possibility to get a good finish.
- Easy workability even ceilings.

PRODUCT INFORMATION

Composition	Portland cement, silica fume, synthetic fibers, selected aggregates and additives
Packaging	5 kg plastic bags
Appearance / Colour	Grey powder
Shelf life	12 months from date of production if stored properly
Storage conditions	Store properly in undamaged and unopened, original sealed packaging in dry and cool conditions, protected from frosts
Density	Freshly mixed mortar: ~ 2,1 kg/l (at +20°C)
Maximum Grain Size	2 mm

TECHNICAL INFORMATION

Compressive Strength	28 days: > 40 N/mm ²	(EN 196-1)
Tensile Strength in Flexure	28 days: > 7 N/mm ²	(EN 196-1)

APPLICATION INFORMATION

Mixing Ratio	~ 0,75 – 0,85 liters of water per 5kg bag
Consumption	Depending on the substrate roughness, surface leveling, and layer thickness to be applied As orientation, ~18 kg/cm thick 1 bag ~2.7 l mortar
Layer Thickness	Min. 5 mm / Max. 20 mm
Ambient Air Temperature	Min. +5°C / max. +30°C
Substrate Temperature	Min. +5°C / max. +30°C
Pot Life	~ 1 hour (at 20°C)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete

Concrete must be free of dust, dirt, oil grease, any loose and friable materials, surface contaminants and materials that can reduce or prevent the wet adhesion of the repairing materials. Its tensile strength must be >1 MPa

Reinforcements:

Rust, scale, mortar, concrete, oil, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed.

Concrete

The concrete must be prepared by mechanical means such as a jet of high pressure water, bush hammered, sandblast, jackhammer etc. and properly prewetted to obtain a saturated but not waterlogged support.

Steel reinforcement:

Surfaces shall be prepared using abrasive blast cleaning techniques or high pressure water-blasting.

Bonding primer:

On a well prepared and roughened substrate a bonding primer is generally not required. When a bonding primer is not required pre-wet the surface. The surface shall not be allowed to dry before application of the concrete repair mortar. The surface shall achieve a dark matt appearance without glistening and surface pores and pits shall not contain water.

When a bonding primer is necessary, apply Sika MonoTop®-910 S (refer to the relevant Product Data Sheet) Mortar application must be made when the primer is fresh, "wet on wet", the bonding has not hardened yet.

Reinforcement coating:

Where a reinforcement coating is required as a barrier (e.g. in case of insufficient concrete cover), apply to the whole exposed circumference two coats of Sika MonoTop®-910 S (Refer to the relevant Product Data Sheet).

MIXING

Sika® MiniPack Repair Mortar can be mixed with a low speed mixer (< 500 rpm). In small quantity, Sika Minipack mortar repair can also be manually mixed. Pour the water in the correct proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mixed thoroughly at least for 3 minutes to the required consistency

APPLICATION

Sika® MiniPack Repair Mortar can be applied either manually using traditional techniques (edges, pillars) or wet spraying when it must be applied in big areas. When bonding agent is required, must be checked, when you go apply the mortar, it is still tacky ("wet on wet"). When applied manually, grouting trowel, pressing on the surface.

The finish can be done with a damp sponge, wood float or expanded polystyrene ("porexpan") from the time the mortar starts setting

CURING TREATMENT

Protect the fresh mortar from early dehydration using the relevant curing method

CLEANING OF EQUIPMENT

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

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

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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