

PRODUCT DATA SHEET

Sika® Patch M MY

HIGH EARLY STRENGTH POURABLE REPAIR MORTAR

DESCRIPTION

Sika® Patch M MY is a pourable 1-part cementitious mortar for repair situations where high early strength is required.

USES

Fast repair mortar for level and slightly inclined concrete and mortar substrates where a rapid return to service is required.

CHARACTERISTICS / ADVANTAGES

- Easy and user friendly application
- High early strengths
- Good ultimate strengths
- Excellent bonding properties
- Non-corrosive to reinforcement
- Non-toxic
- Requires only water for mixing
- Cracking tendency with Baenziger Block Test is zero cracks
- Never mix with admixtures, cement or readymix mortars

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf Life	6 months from the date of production
Storage Conditions	Stored in its original unopened bag in a dry cool place. Protect from direct sunlight, rain, water and moisture.

TECHNICAL INFORMATION

Compressive Strength	After 2 hours	After 4 hours	After 24 hours	After 28 days
	Neat	15 N/mm ²	30 N/mm ²	45 N/mm ²
+ 15 kg of 0–10 mm chippings	17 N/mm ²	30 N/mm ²	45 N/mm ²	50 N/mm ²
+ 20 kg of 0–20 mm aggregates	18 N/mm ²	30 N/mm ²	45 N/mm ²	50 N/mm ²
Note: The added aggregates shall be well-graded and pre-wetted to saturated-surface-dry (SSD) condition.				
Baenziger Block	No cracks (Curing is done in the outdoor conditions)			
Coefficient of Thermal Expansion	Equivalent to concrete			

SYSTEM INFORMATION

System Structure	Bond coat	Sikadur®-732
	Repair mortar	Sika® Patch M MY

APPLICATION INFORMATION

Mixing Ratio	3.4–3.6 L of water per 25 kg bag	
Fresh Mortar Density	~2.20 kg/l	
Consumption	Bonding Bridge (Sikadur®-732)	0.3-0.8 kg/m ² , depending on substrate condition. Substrates that are extremely rough may require higher consumption.
	Neat Mortar	1 bag yields ~13 L of fluid mortar that corresponds to 0.65 m ² per 20 mm thickness
	Mixed with 15 kg of 0–10 mm chippings	1 bag yields ~18 L of concrete that corresponds to 0.36 m ² per 50 mm thickness
	Mixed with 20 kg of 0–20 mm aggregates	1 bag yields ~21 L of concrete that corresponds to 0.21 m ² per 100 mm thickness

Note: The figures given above do not include wastage.

Layer Thickness	Section thickness 15–30 mm
	Use neat Sika® Patch M MY. Saw cut the edge to minimum of 15 mm depth.
	Section thickness 30–75 mm
	Mix 1 bag of Sika® Patch M MY with 15 kg of graded 10 mm chippings. Saw cut the edge to minimum of 60 mm depth.
	Section thickness 75–150 mm
Mix 1 bag of Sika® Patch M MY with 20 kg of graded 20 mm aggregates. Saw cut the edge to minimum of 60 mm depth.	
Section thickness above 150 mm	
Mix 1 bag of Sika® Patch M MY with 20 kg of graded 20 mm aggregates but ensure operation is conducted in layers not exceeding 150 mm thickness. Saw cut the edge to minimum of 60 mm depth.	
Ambient Air Temperature	+15 °C min. / +35 °C max.
Pot Life	20 minutes at 25 °C

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete, Mortar & Stone

Substrate must be clean and sound. It may be dry or damp, but free from standing water. Remove all dust, laitence, grease, curing compounds, impregnations, waxes, foreign particles and disintegrated materials.

Steel & Iron

Clean, free from oil or grease, rust and scale.

MIXING

In order to reduce the thermal peak, we recommend mixing Sika® Patch M MY with iced-water. Pour required quantity of iced water into suitable mixing ves-

sel. Slowly add powder under constant stirring. To limit entraining of air, mix mechanically for at least 3 minutes with electric slow speed stirrer (500 rpm max.)

Other suitable mixing tools are 1 or 2 armed basket type mixers, forced-action mixers or stand type mixers. Do not use free-fall mixers.

APPLICATION

Immediately pour the mortar onto the bonding bridge (wet-on-wet) and de-air using a spike roller (for neat mixes only).

Compact well. When using chippings or aggregates, vibrate the mix. Ensure the vibrator does not touch the wire netting. Avoid excessive vibration in order to prevent segregation.

Ensure an uninterrupted application.

After compaction and finishing, allow the bleed water to evaporate and, then spray Sika® Antisol®-90 onto the repair area (~0.20 l/m²). Once the Sika® Patch M MY starts to harden, spray Sika® Antisol®-90 to again ensure proper protection.

After the second application of Sika® Antisol®-90, place 50 mm polystyrene board onto the repair area to prevent rapid heat loss. Keep the insulation board in place for as long as practically possible.

Allow the repair mortar to harden for at least 2 hours before any load is applied.

CLEANING OF TOOLS

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

IMPORTANT CONSIDERATIONS

- Repair area to be less than 2 m² in one pour
- For areas larger than 0.5 m² it is advisable to include BRC mesh (50 mm mesh)
- Apply bonding bridge at all cold joints
- Never mix with admixtures, cement or readymix mortars
- Do not allow the bonding bridge (Sikadur®-732) to dry-out. If the bonding bridge has dried-out, apply another layer to ensure wet-on-wet application.

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.

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.

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 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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Product Data Sheet

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