

Katie Parfett

From: Grant Bailey <Grant@havercon.com>
Sent: 15 July 2023 09:59
To: Fairhurst, Justin; Regina Cheng; Katie Parfett
Cc: Craig Holmes; Kehoe, Andrew; Josh Senior
Subject: Concrete Patch Repairs

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Hi again all

The patch repairs required to the concrete walls and soffit, where exploratory intrusive investigations have been carried out and also where bulk head light fittings are to be removed, are planned to be undertaken using SIKA MONO TOP - 630 RAPID cementitious patching mortar. This product is specifically design for patch repairs to concrete structures and is suitable for external environments.

We have chosen a cementitious product over an epoxy based product to ensure the closes possible colour and texture match to the existing wall.

The areas for repair and infilling will be prepared in accordance with SIKA guidance and the patches will be built up in layers not exceeding 30mm:-

MIXING

Sika MonoTop®-630 Rapid can be mixed with a low speed (< 500 rpm) hand drill mixer. In small quantities, Sika MonoTop®-630 Rapid can also be manually mixed. Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes adding additional water during the mixing time if necessary to the maximum specified amount, and adjust to the required consistency.

APPLICATION

Reinforcement Corrosion Protection Coating:

Where a reinforcement coating is required, the application of a repair mortar shall be applied wet or dry onto the reinforcement corrosion protection. Refer to the System Information above for compatible Sika® products and refer to the relevant Product Data Sheet(s) for more detailed information about the reinforcement corrosion product.

Bonding Primer:

On a well prepared and roughened substrate, a bonding primer is generally not required for this product. When a bonding primer is required, refer to the System Information above for compatible Sika® products and refer to the relevant Product Data Sheet(s) for instructions. A small amount of Sika MonoTop®-630 Rapid can also be mixed slightly wetter than normal and used as a scratch coat to fill any deep cavities or pits in the base of the substrate. Any bonding primer shall be applied on a pre-wet substrate and subsequent application of the scratch coat/repair mortar shall be applied wet-on-wet onto the bonding primer.

Repair Mortar Application:

Sika MonoTop®-630 Rapid can be applied manually using traditional techniques. Thoroughly pre-wet the

prepared substrate a recommended 2 hours before application. Keep the surface wet and do not allow to dry. Before application remove excess water (e.g. with a clean sponge). The surface shall have a dark matt appearance without glistening, and surface pores and pits shall not contain water. When applying, first make a scratch coat by firmly scraping the repair mortar over the base of the substrate surface to form a thin layer and fill any deep cavities. Ensure the whole surface to be repaired is covered by the scratch coat. For vertical applications, build up layers from bottom to top by pressing mortar well into the repair area. The surface can be finished according to the surface texture requirements using a float. Do not over-trowel as this may lead to surface cracking.

CURING TREATMENT

Protect the fresh mortar immediately from premature drying for a minimum of 3 days using an appropriate curing method (e.g. curing compound, moist geotextile membrane, polythene sheet, etc.). Curing compounds shall not be used when they adversely affect subsequently applied products and systems. Reference shall also be made to EN 1504-10 for specific requirements.

Details of Sika MONO TOP - 630 RAPID cementitious patching mortar can be found at:

<https://gbr.sika.com/en/construction/concrete-repair/mortars-and-concretes/cementitious-mortars-and-concretes/concrete-repair-andnewconstructionmortarsandconcretes/hand-applied-cementitious-repair-mortars/sika-monotop-630rapid.html>

Please be clear on the fact that any patching mortar will be a slightly different shade / colour to the original concrete. We will “rub up” the surface with a combination of white cement and silver sand to blend the repair into the existing, depending on the colour difference of the Sika product.

Regards

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