QUICSEAL 514

Easi-Patch

Good workability

Water and weather resistant

Provides good protection to embedded steel reinforcement.

Excellent bond to the concrete substrate

Chloride free mortar

Green product certified material

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QUICSEAL 514

Easi-Patch

DESCRIPTION
QUICSEAL 514 EASI-PATCH is a two-component repair mortar consisting of a synthetic resin mixed with a blend of selected cement and well-graded filler.

When mixed, QUICSEAL 514 becomes a workable mortar and is easily applied by trowel. The cured mortar is durable and weather resistant and has excellent adhesion to concrete substrates. Its polymer modification provides good resistant to water and good protection to embedded steel reinforcement.

USES
- Localised patch repairs
- Protect embedded steel reinforcement
- Repairs to spalling concrete
- Repairs to walls, floor and soffit
- Rectification of structural alignment

SUBSTRATE PREPARATION
The substrate must be clean and sound, free of dust, loose particles. Laitance, oil, grease must be removed from concrete surfaces by scabbling, grit blasting or other means. Defective and unsound substrate has to be removed and repaired prior to application of QUICSEAL 514.

Saw cut the repair locations to a depth of at least 10 mm to provide a square edge and to avoid feather-edging. Break out the complete repair area to a minimum depth of 10 mm up to the sawn edge.
Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits by using hand held grinding tools. Steel should be free from contaminants and any foreign matters that may inhibit adhesion. Grit-blasting is recommended for this process.

REINFORCING STEEL PRIMING
Apply one full coat QUICSEAL 504 Rust Protector and allow to dry. Refer to QUICSEAL 504 catalogue for application instruction.

SUBSTRATE PRIMING
The substrate should be dampened with clean water (any excess being removed prior to commencement) prior to applying one coat of QUICSEAL 509 or QUICSEAL 607 bonding agent. The bonding agent should be applied by brush to the prepared surface by a vigorous stippling action to ensure uniform coverage.

MIXING
Pour Part A (liquid) into a clean container. Slowly add Part B (powder) into the container and mix with a low speed mechanical mixer until a homogeneous and lump-free mix is obtained.

APPLICATION
Immediately after mixing, apply well-mixed QUICSEAL 514 to the primed surface as soon as the bond coat becomes 'tacky' at thickness of 10mm to 25 mm in one layer.

For placement of more than 1 layer, the surface of the intermediate layer should be scratch-keyed prior to application of subsequent layers.

CURING
Consistent with cementitious toppings, it is essential to allow QUICSEAL 514 to cure naturally in ambient conditions. Where rapid drying conditions exist, such as high temperature, direct sunlight, and strong wind, QUICSEAL 514 should be protected with polythene sheet, wet hessian or QUICSEAL 507 Cure-Shield WB curing compound to reduce premature water loss.

TECHNICAL DATA

Mix Ratio (liquid : powder)	1: 5.25
Compressive Strength at 28 days (ASTM C109:1985)	> 40 N/mm^2
Tensile Pull-Out Strength at 28 days using Briquettes (ASTM C190:1985)	> 2.9 N/mm^2
Adhesion Strength on Substrate (ASTM D4541:1995)	≥ 1.8 (before weathering) ≥ 1.8 (after weathering)
Stiffening Time (BS4551: Part 1:1998)	Approx. 6 hrs

PACKAGING
QUICSEAL 514 is available in 25kg and 125kg set.

COVERAGE
1.7kg/m^2/mm thickness

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STORAGE
12 months if kept in a dry cool place in the original packaging. If stored at high temperatures and/or humidity conditions the shelf life may be reduced.

HEALTH AND SAFETY
QUICSEAL 514 contains cement powders which, during normal use, have no harmful effect on dry skin. However, when QUICSEAL 514 is mixed, or becomes damp, alkali is released which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes.

IMPORTANT NOTES
The information set forth herein is furnished free of charge in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for used by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, please contact ARDEX-QUICSEAL

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Reference No. 514/200825 T