

LINTELS

Restoring Exploding Lintels

Restoring damaged Lintels

When steel reinforcing rusts it expands and explodes the concrete. This can result in a dangerous situation, as concrete may dislodge falling to the ground. The following is a practical suggestion to remedy the problem.



Working at heights with appropriate safety equipment.



'HOW TO' INSTRUCTIONS



PRODUCTS REQUIRED:

Rust inhibitor
Sikadur 31 - Epoxy resin adhesive mortar
Sika Monotop 615HB - High build repair mortar
Sika Monotop 210 – Fairing compound
Classic Paints

APPLICATION METHOD:

There is always more than one way to do a job, but we have found the following effective.

Thoroughly remove all damaged parts of the lintel:

Use mechanical and hand chisel methods to dig deep into the concrete lintel to remove all concrete from the area around the rusting metal. Often it requires cutting into the concrete more than anticipated.

Protect and re-build the lintel:

Start with cleaning and mechanically abrade the steel surface, then apply a rust inhibitor. If additional steel reinforcing required, secure with Sikadur 31. Apply the high build mortar in accordance with specifications, flush to the level of the existing surface.

Finishing touches:

To smooth out fine cracking and even the surface appearance apply a fairing mortar to the concrete surfaces.

Paint surrounding surfaces as required.

SAFETY CONSIDERATIONS:

SAFETY:

Wear rubber gloves, protective clothing and eye wear to protect skin. Avoid contact with the skin and eyes.

FIRST AID TREATMENT:

Immediately wash skin with clean water, irrigate eyes with clean water, and seek medical attention for alkaline contact.