

MORTARPROOF WATERPROOFING AND CURING COMPOUND

**PROMOTES MORTAR ADHESION TO MOST SURFACES
INCREASES TENSILE & FLEXURAL STRENGTH
ECONOMICAL WATERPROOFING SYSTEM
INCREASES CHEMICAL RESISTANCE
REDUCED TILE MORTAR THICKNESS**

PRINCIPAL USES

Pro-Struct Mortarproof 610/601 is an extremely versatile material and as such lends itself to a number of applications. As an additive to cement bagging, rendering, plaster, patching mortars, tile mortar, industrial floor screeds, etc., where waterproofing of cement mixes is required. It improves the bond of subsequent paint coats and can be used as an adhesive to bond plaster or screeds.

RESISTANCE

Water resistance, chemical resistance and oil resistance of Mortarproof modified cement mixes is improved compared with the unmodified cement. Abrasion resistance is also enhanced.

SPECIFICATION

Mix Pro-Struct 610/601 Mortarproof in the proportion indicated in the mixing table for the various types of application. The aggregate proportion (sand or sand and stone) is normal for the type of work to be carried out and the water content is adjusted to suit the relevant application.

SURFACE PREPARATION

Before applying Mortarproof all surfaces must be clean, structurally sound, free of oil, grease, laitance, loose material and other foreign contaminants. Mechanically roughen smooth surfaces to ensure good bonding (medium sandpaper profile or rougher). Clean thoroughly with liberal quantities of potable water, leaving surface damp.

MIXING

Use a mortar mixer (with moving blades) or heavy duty drill and paddle mixer. Pre-wet all tools and mixer before mixing and pour out excess water. Add the recommended amount of cement and aggregates to the mixer as directed in the mixing table. Then add the pre-blended Mortarproof and water slowly while mixing. Never exceed the maximum water limits. Mix in the manner which will not aerate the mix. Never re-temper the mix. Never add more water to bring back the consistency after material has begun to stiffen. Once material has been placed, do not overwork or over-trowel. All equipment should be thoroughly flushed clean with water before the waterproofing material has reached its initial set.

INSTALLATION

Refer to detailed instructions for appropriate application.

SPECIAL APPLICATIONS

Pro-Struct 610/601 is one of many unique products developed for industrial and contractor use. If your application is unusual, or if you feel additional help is required, please contact StonCor Africa.

LIMITATIONS

- At time of placement, temperatures of equipment and surfaces should be between 10-30°C.
- Installation area must be protected from rain, wind and rapid evaporation for 24 hours.
- Never add too much water. Add an amount that will not cause segregation.
- Construction practices dictate concrete foundation should achieve its design strength before use of Pro-Struct 610/601 Mortarproof.

TYPICAL PROPERTIES AT 25°C

Colour	Milky white. Clear when dry
No. of Components	1 + Water + Cement
Dosage Rate and Yield	Refer to mixing table
Cleaner	Water (in uncured state)
Composition	Modified Polymer
Shelf Life	3-4 Months
Application Temperature Range	10-30°C
Curing Time	24 Hours – initial set 3 Days – Waterproofing 28 Days – Ultimate strength

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APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

WATERPROOFING SLURRY, PATCHING MORTAR AND BAGGING MIX

Mix Mortarproof 610/601 and water proportions by volume. Mix clean building sand with Portland cement in proportions and then add diluted Mortarproof 610/601 and continue mixing until a lump-free consistency is achieved. Continue mixing during application to ensure no settling.

MIXING TABLE

	Unit	Waterproofing Slurry	Patching Mortar	Plaster, Bonding & Bagging	Curing Compound
Mortarproof 610/601	Litres	5,0	5,0	10,0	5,0
Water	Litres	5,0	Adjust to consistency	Adjust to desired consistency	45,0
Cement CEM 42,5	Kgs	1/3 Bag 16,5	1 Bag 50,0	1 Bag 50,0	-
Aggregate	Kgs	-	150,0	Plaster Sand 50,0	-
Yield Approximate	Litres	15,0	90,0	60,0	50,0
Coverage		8m ² /15lt + membrane	± 9m ² /90lt/10mm	20m ² /60lt/3mm	8m ² /lt

APPLICATION

WATERPROOFING SLURRY

While the surface is still damp, apply a prime coat of Mortarproof 610/601 slurry. Soak the pre-cut Pro-Struct 599 Cemproof fabric into the mixed material, then remove and apply into the primer coat. Smooth the fabric and ensure to eliminate all air bubbles. Once the entire area has been covered, apply a second coat of Mortarproof 610/601 slurry and allow to dry. A final coat is then applied to complete the application.

PATCHING MORTAR

Prepare the mix by blending the proportions of cement and clean sharp aggregate, preferably by mechanical mixer and add the Mortarproof 610/601 and water, adjusting the water level to achieve desired consistency. Do not over mix as it will aerate.. Mechanical mixing 3-4 minutes. Apply the mix into wet primer at approximately 10mm, compact with wood float, strike off and finish with a steel trowel – do not over trowel.

NB: Application of Mortarproof 610 modified plaster, patching mortars, etc., should not exceed 30mm thickness in any single application. Where thickness required is greater than 20mm, apply 2 or 3 layers allowing curing between applications. Cracking will occur if mortars and patching are not protected from hot/dry conditions.

Correct grading of aggregate is critical in achieving a dense high strength mortar. Aggregates should be submitted to a local testing authority or StonCor Africa Laboratory prior to its use to determine performance.

BONDING AND BAGGING

For bonding, while the substrate is still damp, apply a coat of Mortarproof 610/601 bonding slurry by means of a block brush or soft broom. Immediately apply plaster or screed layer whilst the slurry coat is still wet. For waterproof bagging, whilst the substrate is still damp, apply a coat of Mortarproof 610/601 slurry by means of a block brush or soft broom, ensuring thorough saturation of the substrate. A second coat may be required to achieve entire sealing of the area.

CURING COMPOUND

Prepare material and apply by a knap sack, spray onto fresh concrete surfaces and repairs as soon as surface is set.

FIELD QUALITY CONTROL

24 Hours after application, the product should be inspected to ensure it is cured and well bonded, showing no softness nor dusting. If inadequate protection is suspected it should be chipped out and replaced.

PROTECTION

Protect from rain, wind and rapid evaporation for 24 hours after application.

CLEAN-UP

Cured material can only be removed mechanically. Uncured Mortarproof 610/601 can be removed with water.

CAUTION

Used with cementitious material and crystalline free silica. Take appropriate measures to avoid breathing dust. Avoid contact with eyes and contact with skin. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Immediately call a physician. Wash skin thoroughly after handling. Prior to use, refer to the material safety data sheet.

CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES



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