

## **MORTARPROOF WATERPROOFING, CURING COMPOUND AND ADHESION PROMOTER**

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

### **PRINCIPAL USES:**

Pro-Struct 610/601 is an extremely versatile material and, as such, lends itself to several 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. It promotes adhesion between bituminous substrates and various Tremco Liquid Applied Waterproofing systems.

### **RESISTANCE:**

Water resistance, chemical resistance and oil resistance of Pro-Struct 610/601 modified cement mixes is improved compared with the unmodified cement. Abrasion resistance is also enhanced.

### **SPECIFICATION:**

Mix Pro-Struct 610/601 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:**

#### **Cementitious Substrates:**

Before applying Pro-Struct 610/601, 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.

#### **Bituminous Substrates (for Tremco Liquid Applied Waterproofing systems):**

All defective areas to be stripped and replaced with an approved product before the preparation of the roof / gutter for the system recommended coating. Remove all loose granules, dirt, dust, debris, etc. by mechanical brush, stiff broom, vacuum, power washing using CarboClean 250, etc. After surface preparation is complete, rinse thoroughly with potable water. Allow the bitumen surface to dry.

### **MIXING:**

#### **Pro-Struct 610/601 Waterproofing and Curing Compound:**

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 Pro-Struct 610/601 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.

#### **Adhesion Promoter:**

Stir Pro-Struct 610/601 thoroughly before use. Do not dilute.

### **TYPICAL PROPERTIES AT 25°C**

<b>Colour</b>	Milky White, Clear when dry
<b>Number of Components</b>	1 + Water + Cement
<b>Dosage Rate and Yield</b>	Refer to mixing table
<b>Cleaner</b>	Water (in uncured state)
<b>Composition</b>	Modified Polymer
<b>Shelf Life</b>	3 to 4 Months
<b>Application Temperature Range</b>	10 to 30°C
<b>Curing Time</b>	24 Hours – initial set 3 Days – Waterproofing 28 Days – Ultimate strength
<b>VOC Content</b>	2g/l

# 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.

## 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, temperature of equipment and surface should be between 10 to 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.

## WATERPROOFING SLURRY, PATCHING MORTAR AND BAGGING MIX:

Mix Pro-Struct 610/601 and water proportions by volume. Mix clean building sand with Portland cement in proportions and then add diluted Pro-Struct 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
Pro-Struct 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 <sup>2</sup> /15lt + membrane	± 9m <sup>2</sup> /90lt/10mm	20m <sup>2</sup> /60lt/3mm	8m <sup>2</sup> /lt

## APPLICATION:

### - Waterproofing Slurry:

While the surface is still damp, apply a primer coat of Pro-Struct 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 Pro-Struct 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 Pro-Struct 610/601 and water, adjusting the water level to achieve the desired consistency. Do not over-mix as it will aerate. Mechanically mix for 3 to 4 minutes. Apply the mix into the wet primer at approximately 10mm, compact with wood float, strike off and finish with a steel trowel – do not over-trowel.

**NB: Application of Pro-Struct 610/601 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 Pro-Struct 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 Waterproofing Bagging, whilst the substrate is still damp, apply a coat of Pro-Struct 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.

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## - **Adhesion Promoter Bituminous Substrates:**

For hand application, dampen brushes or rollers with Pro-Struct 610/601 before use and shake out excess product. For larger areas or faster application, use airless spray equipment or industrial pump-up sprayers with a fan tip nozzle. Hold spray nozzle 300mm to 450mm from the surface and apply Pro-Struct 610/601 using a cross-coat technique consisting of a horizontal pass followed by a vertical pass. Apply at a uniform coverage by spray or roller application. Product may be sprayed with a knap sack sprayer or with an airless industrial sprayer. If roller applied, use a short or medium nap roller.

Pro-Struct 610/601 must be tack-free before being overcoated. Pro-Struct 610/601 will dry in approximately 2 to 3 hours, depending on the temperature and/or humidity. During the product open time, regardless of the length of time, the surface must be protected from dust, dirt, foot traffic and any other sources of contamination or abrasion prior to the application of Tremco Liquid Applied systems. Any dust, dirt or other contaminants can adversely affect the bond strength of Tremco Liquid Applied systems.

## **PROTECTION:**

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

## **CLEAN-UP:**

Cured material can only be removed mechanically. Uncured Pro-Struct 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.