

Mortarproof waterproofing, curing compound and adhesion promoter

PRODUCT DESCRIPTION:

Pro-Struct Admix 360 is an extremely versatile material for 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.

PRIMARY APPLICATIONS:

- Cement bagging and rendering
- To bond plaster
- Industrial and residential floor screeds
- Tile mortar and patching
- Curing compound for concrete surfaces
- Waterproofing cement mixes

FEATURES & BENEFITS:

- Versatile application
- Waterproofs
- Promotes adhesion to most surfaces
- Increases tensile and flexural strength
- Economical waterproofing system
- Increases chemical resistance
- Reduce tile mortar thickness
- Boosts the bond for subsequent paint coats

RESISTANCE:

Water resistance, chemical resistance and oil resistance of Pro-Struct Admix 360 modified cement mixes is improved compared with the unmodified cement. Abrasion resistance is also enhanced.

SPECIFICATION:

Mix Pro-Struct Admix 360 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.

DIRECTIONS FOR USE:

Surface Preparation:

Cementitious Substrates:

Before applying Pro-Struct Admix 360, 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.

TYPICAL PROPERTIES AT 25°C

Composition	Modified polymer
Packaging	5 Litre
Components	1 + Water + Cement
Consistency	Liquid
Colour(s)	Milky White – Clear when dry
Mixing	Mortar mixer / heavy-duty drill
Thinners / Dilute	Not recommended
Application Method	Many uses – waterproofing, patching, bagging, curing
Application Temperature	10°C to 30°C
Coverage / Spread Rate / Yield	Refer to mixing table
Drying / Curing Time	Initial set: 24 hours Waterproofing: 3 days Ultimate strength: 28 days
Cleaner	Water
Shelf Life	12 Month

Mixing:**Pro-Struct Cement Additive:**

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 Admix 360 and water slowly while mixing. Never exceed the maximum water limits. Mix in a 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 Admix 360 thoroughly before use. Do not dilute.

Installation:

Refer to detailed instructions for appropriate application.

Special Applications:

Pro-Struct Admix 360 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.

Waterproofing Slurry, Patching Mortar and Bagging Mix:

Mix Pro-Struct Admix 360 and water proportions by volume. Mix clean building sand with Portland Cement in proportions and then add diluted Pro-Struct Admix 360 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 Cement Additive	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	kg's	1/3 bag 16.5	1 bag 50.0	1 bag 50.0	-
Aggregate	kg's	-	15.0	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 primer coat of Pro-Struct Admix 360. Soak the pre-cut non-woven Waterproofing Membrane 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 Admix 360 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 Admix 360 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 Admix 360 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.

Bonding and Bagging:

For bonding, while the substrate is still damp, apply a coat of Pro-Struct Admix 360 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 Admix 360 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.

Protection:

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

STORAGE:

Store in a cool, dry place between 10°C and 30°C.

CLEAN-UP AND SAFETY:

Cured material can only be removed mechanically. Uncured Pro-Struct Cement Additive can be removed with water.

PRECAUTIONS / LIMITATIONS:

- At time of placement, temperature of equipment and surface should be between 10°C 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 Admix 360.
- Used with cementitious material and crystalline-free silica. Take appropriate measures to avoid breathing dust.
- Avoid contact with eyes and 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.

TECHNICAL INFORMATION:

Property	At 25°C
VOC	2g/litre
Density	1.00 to 1.04