

CONCRETE SURFACE REPAIR PLASTER

- Multi-purpose applications
- Feather edge to thick layers
- Shrinkage compensated polymer modified
- Extended working time
- Gypsum free
- Hydrophobic, yet vapour permeable
- Easy to mix, apply and finish
- Appearance of concrete and can be pigmented
- Suitable for Tyrolene renders
- High strength plaster

PRODUCT DESCRIPTION:

Pro-Struct 514 is a one component cement polymer plaster which is factory blended to give consistent surface finishes in thin or thick layers. The cured hard non chalky finish makes it ideal for interior or exterior applications which can be left uncoated but also provides a compatible surface for the application of StonCor's Epoxy, Polyurethane and Acrylic finishes.

USES:

- Patching of off-shutter concrete
- High strength skimming plaster
- Cosmetic repairs of damaged surfaces
- Filling holes and conduit chased cavities
- Splatter and textured finishes
- Repointing of brickwork

PACKAGING & COVERAGE:

25kg Polyethylene lined bags yielding 15 litres
 Approximately 7.5m²/25kg bag at 2mm thick
 Approximately 3.75m²/25kg bag at 4mm thick
 Approximately 1.5m²/25kg bag at 10mm thick

SHELF LIFE:

One year in original, unopened packaging when stored in dry conditions. High humidity will reduce shelf life.

TYPICAL PROPERTIES AT 25°C

Compressive Strength, ASTM C109	
3 Days	>10 MPa
7 Days	>16 MPa
28 Days	>30 MPa
Bond Strength, ASTM C158	
7 Days	1.5 MPa
28 Days	2.0 MPa
Density	2000 to 2200kg/m ³
Working Time	30 to 40 Minutes
Set Time, ASTM C191	Initial: 60 to 80 Minutes
Dependent on thickness	Final: 2 to 3 Hours
Application Thickness	2 to 10mm
Appearance when set	Smooth, light grey colour
Clean up of tools	Use water before product sets

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.

PLACEMENT GUIDELINES

SCOPE OF WORK (BOQ):

Prepare surfaces, removing unbound materials and onto a pre-dampened surface, apply Pro-Struct 514 at between 2 to 10mm thick to level surfaces.

SURFACE PREPARATION:

Remove all shutter oils, grease and contaminants by scrubbing with Carboclean 252 and rinsing with clean running potable water to obtain a water break-free surface. Abrade the surface to remove laitance, open all voids and expose the substrate aggregate. Weak concrete and plaster should be removed and surface defects such as honeycombed areas, blow holes and cavities must be chipped to expose a sound substrate.

PRIMING:

Prior to placement, the roughened concrete or brick surfaces must be pre-soaked with clean potable water, removing any pooled water prior to application.

MIXING:

Mix Pro-Struct 514 Surface Repair Plaster with 4 litres of clean potable water, using a mortar mixer or heavy-duty drill and paddle impellor. Adjust consistency to suit the application, but do not exceed 5 litres of water. Do not re-temper the mix by adding more water, this will cause strength reduction as well as shrinkage cracking. For small repairs, mix by hand with a gauging trowel or putty knife for 5 minutes, adding water slowly to achieve the desired non-slump, lump free consistency. Stonclad UL pigment packs can be added if colours are required.

APPLICATION:

Work a small amount into the pre-dampened surfaces, ensuring voids between substrate/aggregate are closed, taking care not to have air pockets. Then apply from the bottom of the cavity from one side to the other, filling to the desired level. If working overhead or vertically in unsupported side lifts greater than 10mm, scratch the surface of the first layer and allow to gain sufficient strength prior to the application of further material.

TYROLENE RENDERS:

Adjust consistency of Pro-Struct 514 to suit the application equipment. For spray application, use a low pressure hopper gun, ensuring continuous feed into wet edges. If a hand-held splatter gun is to be utilised, even thickness is essential to obtain a uniform appearance. Peak flattening or aggregate rolled textures can be achieved by various trowelling methods.

CURING:

Pro-Struct 514 Surface Repair Plaster does not require curing with standard methods for most applications. Do not, however, apply under hot, windy or rapid drying conditions. Use of shade cloth and plastic sheeting will reduce rapid drying.

SPECIAL CONDITIONS:

- Never exceed the maximum water content as stated on the packaging.
- The temperature of equipment and surface must be between 2°C and 32°C at the time of placement.
- For cold weather patching, keep material warm at approximately 22°C and use warm water for mixing.
- For hot weather patching, use cold water to extend the working time and keep materials in a cool, dry place.
- Do not over-trowel the repair. The product can be lightly sanded after 16 hours to obtain a smooth finish.

PRECAUTION:

Contains 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. Keep product out of reach of children. 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 NON-FERROUS TOOLS AND TO WEAR CONDUCTIVE AND NON-SPARKING SHOES.



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