

## GENERAL PURPOSE REPAIR MORTAR

- **MULTI-PURPOSE PATCH / REPAIR MORTAR**
- **EXTENDED WORKING TIME**
- **AGGREGATE ALREADY BLENDED**
- **NON-SHRINK**

- **ONE COMPONENT, EASY TO USE**
- **APPEARANCE OF CONCRETE**
- **VERTICAL AND OVERHEAD PLACEMENT**
- **RAPID STRENGTH DEVELOPMENT**

### PRODUCT DESCRIPTION:

Pro-Struct 524 VO is a one component, factory blended and quality controlled cementitious general purpose repair mortar. The formulated aggregate, cement and plasticiser levels ensure consistent bond and strength development are achieved.

### USES:

- Repair to non-structural concrete
- Patching concrete floors / screeds
- For structural repair, use Pro-Struct 529-MCI/528 VO-MCI
- Repointing of brickwork
- High strength plaster
- Compatible with Muralflex and Stonkote coatings

### PACKAGING & COVERAGE:

25kg Polyethylene lined bags yielding 14 litres

### SHELF LIFE:

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

### TYPICAL PROPERTIES AT 25°C

<b>Compressive Strength, ASTM C109</b>	
7 Days	19 MPa
28 Days	35 MPa
<b>Bond Strength</b>	Concrete Substrate Failure
<b>Density</b>	2.0 to 2.2 kg/litre
<b>Working Time</b>	20 to 30 Minutes
<b>Set Time</b>	60 to 120 Minutes
<b>Application Thickness</b>	
Vertical & Overhead per layer	6mm to 30mm

# 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):

Break out defective non-structural concrete or plaster and hand apply Pro-Struct 524 VO General Purpose Repair Mortar for aesthetic repairs between 6mm and 40mm deep (measurement – litres or m<sup>3</sup>). For structural concrete repairs, use Pro-Struct 529-MCI / Pro-Struct 528 VO-MCI.

### SURFACE PREPARATION:

1. Saw-cut the concrete/plaster within the outlines to a minimum depth of 6mm for vertical and 15mm for horizontal surfaces, ensuring all cuts are perpendicular to the surface, thus avoiding feather edges at all times. Side edges to be roughened by chipping to create an adequate bond.
2. All defective concrete/plaster must now be completely removed.

### PRIMING:

Ensure the concrete is pre-soaked with clean water and if particularly absorbent, repeat again until the surface is completely saturated. Before continuing, remove all excess water.

### MIXING:

Mix Pro-Struct 524 VO General Purpose Repair Mortar with 3.5 litres of clean potable water using a mortar or heavy-duty mechanical mixer and paddle mixer. Adjust consistency if necessary but do not exceed 4.5 litres or an amount which will cause segregation. Do not mix more material than can be placed in 30 minutes. Do not re-temper the mix by adding more water, this will cause strength reduction as well as shrinkage cracking. Only mix full bags.

### APPLICATION:

The Pro-Struct 524 VO should be applied into the wet slurry using a gauging trowel, ensuring complete filling of the repair area with maximum compaction.

### WET CURING:

After the patch has set for approximately 2 hours, keep surfaces wet with clean potable water and protect from rain, wind and rapid evaporation for 24 hours after application.

### SPECIAL CONDITIONS:

- Never exceed the maximum water content as stated on the packaging.
- The temperature of materials, equipment and surfaces must be between 2°C and 32°C at the time of placement.
- For cold weather patching, keep materials warm (approximately 22°C). For hot weather patching, use cold water to extend the working time and keep materials in a cool, dry place.
- Substrate shall be free of frost and ice.
- The required patch must be protected from freezing for a period of 3 hours after placement.

### 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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