

GENERAL PURPOSE REPAIR MORTAR

- **MULTI-PURPOSE PATCH / REPAIR**
- **EXTENDED WORKING TIME**
- **AGGREGATE ALREADY BLENDED**
- **NON-SHRINK**
- **ONE COMPONENT, EASY TO USE**
- **APPEARANCE OF CONCRETE**
- **VERTICAL AND HORIZONTAL PLACEMENT**
- **RAPID STRENGTH DEVELOPMENT**

PRODUCT DESCRIPTION:

Pro-Struct 524 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

Compressive Strength, ASTM C109	
3 Days	20 MPa
7 Days	30 MPa
Bond Strength	Concrete Substrate Failure
Density	2.0 to 2.2 kg/litre
Working Time	30 to 40 Minutes
Set Time	90 to 120 Minutes
Application Thickness	
Vertical	6 to 10mm
Horizontal	15 to 40mm

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 General Purpose Repair Mortar for aesthetic repairs between 6mm and 40mm deep (measurement – litres or m³). 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:

The concrete surface needs to be pre-wetted and then a slurry coat consisting of approximately 4,0 litres of water per 25kg unit of Pro-Struct 524 is to be applied using a stiff brush. If any primer is allowed to dry out before the application of the repair mortar, then this should be completely removed and re-primed.

MIXING:

Mix Pro-Struct 524 General Purpose Repair Mortar with 3 litres of clean potable water using a mortar or heavy-duty mechanical mixer and paddle mixer. Adjust consistency if necessary but do not exceed 3,5 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 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.



StonCor Africa (Pty) Ltd
Co. Reg. No. 1996/001848/07
Tel: +27 (0) 11 254 5500
Website: www.stoncor.co.za
E-mail: stoncorsa@stoncor.com