

- Fluid consistency
- Self-levelling for smooth, flat floors
- Low shrinkage
- Excellent self-healing properties
- Pumpable
- High early strength

PRODUCT DESCRIPTION:

Pro-Struct 512 Easy Flow is a single component cement-based, free-flowing, self-levelling compound specially designed for easy application over concrete floors as an underlayment for subsequent placement of floor coverings. It is suitable for use as a repair and levelling course and may be applied at thicknesses from 4mm to 15mm. Pro-Struct 512 Easy Flow may be used as a wear surface when protected by Stonhard flooring systems. Recommended product for levelling of floor prior to application of epoxy or polyurethane screeds.

USES:

- Levelling interior or exterior sound concrete
- Repair of old, worn concrete
- Self-levelling underlayment for coatings
- Levelling wood sub-floors
- Repair of surface after removal of tiles
- Hard wear resistant surfaces

PACKAGING & COVERAGE:

25kg Polyethylene lined bag yielding 14 litres
Approximately 3.5m²/25kg bag at 4mm thickness

SHELF LIFE:

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

TYPICAL PROPERTIES AT 25°C

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| Compressive Strength, ASTM C109 | |
| 24 Hours | >25 MPa |
| 7 days | >35 MPa |
| Bond Strength, ASTM C158 | |
| 7 Days | 2.0 MPa |
| 28 Days | 2.5 MPa Substrate failure |
| Density | 2200 to 2200kg/m ³ |
| Working Time | 15 to 20 Minutes |
| Set Time, ASTM C191 | Initial: 2 to 3 hours Final: 6 to 8 hours |
| Application Thickness | 4 to 15mm |
| 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, prime and broadcast aggregates, allowing to set, removing unbound material before applying Pro-Struct 512 Easy Flow at 4 to 15mm to level surfaces.

SURFACE PREPARATION:

Remove all oils, grease and other contaminants by scrubbing with Carboclean 252 and rinsing with clean running potable water to obtain a water break-free surface. Allow to dry. Abrade the surface by vacu-blasting or scarifying to remove the laitance, open all voids and expose the aggregate to a depth of 1 to 2mm. The roughened surface should be a dust-free, sound concrete surface with a portion of the main aggregate in the concrete exposed. A minimum tensile strength of 2 MPa and moisture content of less than 5% is required. Refer to Surface Preparation Methods for additional information.

PRIMING:

The concrete must be primed with Stonprime 739 at 3m²/litre, then broadcast with Stonhard # 6222 Aggregate to refusal. Once the epoxy primer has hardened, remove excess unbound aggregate.

MIXING:

All materials should be in the proper temperature range of 16°C to 32°C. Single bags of Pro-Struct 512 Easy Flow may be mixed in a pail with a drill and "jiffy" mixer for a minimum of 4 minutes. Larger projects are best placed with standard grouting or underlayment equipment. Add the appropriate amount of water, 4 to 4.5 litres per bag, and then add the dry product. Do not use water at a rate that will cause bleeding or segregation. **UNDER NO CIRCUMSTANCES USE MORE THAN 4.5 LITRES OF WATER PER 25KG BAG.** Mix a minimum of 4 minutes to a lump-free, smooth consistency. If bucket mixed, the product should be quickly transported to the installation area and placed immediately.

APPLICATION:

For applications over 15mm in thickness, add 12.5kg of Pro-Struct 53MC Aggregate to extend the initial layer. Placement options include screeding or the use of pre-placed aggregate. Apply a bond coat to the surface of the initial layer and place additional underlayment to achieve the final smooth surface.

PLACEMENT:

The product must be continuously placed to provide a smooth and uniform surface. Start in one corner, placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface. Tools such as spiked rollers, notched squeegees, trowels and smoothers may be used to assist placement. The product should be placed and smoothed within 15 minutes at 25°C from time of mixing.

FINISHING:

This product is self-levelling and requires no finishing or troweling operation.

CURING:

(See Precautions) Pro-Struct 512 Easy Flow does not require curing with standard methods for most applications. DO NOT apply under hot, windy or rapid drying conditions.

PRECAUTION:

- Do not use Pro-Struct 512 Easy Flow as a heavy-duty wearing surface for industrial floors.
- Pro-Struct 512 Easy Flow is not to be used in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture, for this could jeopardise the performance of the underlayment and floor covering.
- Pro-Struct 512 Easy Flow is not a vapor barrier and will allow free passage of moisture.
- Do not add admixtures or calcium chloride.
- Do not use if ambient temperatures will fall below 16°C or above 30°C within 72 hours after placement.
- Do not allow freshly placed Pro-Struct 512 Easy Flow to freeze within 7 days after placement.
- Contact floor covering manufacturer for specific requirements regarding maximum moisture content, adhesive selection and intended end use of the product prior to application of floor coverings.
- Store in a dry place.
- Not for use in freeze-thaw environments.
- If placing Pro-Struct 512 Easy Flow over a wood floor, it is very important to secure the floor solidly to prevent all movement.
- In all cases, consult the Material Safety Data Sheet before use.
- A trial reference sample should be installed by the Applicator prior to start of contract to verify correct dry thickness, coverages, workmanship and texture.

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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