

CRS 3000

RESURFACING

DESCRIPTION:

CRS3000 is a spray-on cementitious-based polymer modified 2-part concrete resurfacing system. CRS3000 produces simulated paving bricks, tiles and bushrock on existing plain concrete surfaces. CRS3000 achieves excellent compressive, tensile and flexural strength, extremely high abrasion resistance and textured slip-resistant decorative concrete surfaces.

RECOMMENDED USE:

CRS3000 is tested suitable as a decorative wear surface placed on existing plain concrete pavements used for pathways, roadways, driveways, internal flooring and pool surrounds provided that the structural integrity of the underlying pavement is sound.

FEATURES AND BENEFITS:

- Transforms plain concrete surfaces.
- Colours / stencil patterns replicate brick, tile and stone paving surfaces.
- Design flexibility – headers, rosettes and custom logos add style and value.
- Economical – saves cost of removal & reinstatement of existing concrete pavements in good condition.
- Negligible impact on existing pavement design loadings and finished levels – CRS 3000 thickness is only 2-3mm.
- Suitable for large and small projects – new concrete may be placed for construction site safety, access & mobility and afterwards resurfaced before handover at completion of works.
- Service life expectation 20 years – subject to exposure conditions and maintenance.

STORAGE AND SHELF LIFE:

Store materials in the original sealed packaging in dry conditions. Shelf life of 6-12 months may be expected depending on humidity.

PERFORMANCE DATA:

CRS3000 strength development is dependent on the amount of mixing liquid, ambient temperature and age of curing.

Compressive strength:

7 Days	35MPa
14 Days	38.5MPa
28 Days	41.5MPa

Slip Resistance

A coefficient of friction of 0.80 when tested wet. This substantially exceeds the minimum value of 0.4 required by AS/NZS 4586 -2003

Abrasion Resistance

A mean abrasion index of 0.1 indicates wear resistance suitability for high traffic applications.

Precautions & Limitations

Until hard-set has occurred, freshly finished surfaces must be protected from rain or damage from other sources. In windy conditions and on days of high ambient temperature (>28°C) and particularly if accompanied with low humidity, special precautions must be taken during product mixing and placement. The product must not be applied at ambient temperatures <10°C and >33°C. Finished surfaces must be sealed immediately following completion of the work.

ESTIMATING DATA

20kg of CRS3000 mixed with 2.5 litres of water and 2.5 litres of modifier will cover approximately 10-12m² in a single coat application.

SPECIFICATIONS

MIXING INSTRUCTIONS – SUMMARISED

Important Notice: Read Mixing Instructions fully for proper understanding of the blending operation and how to achieve the desired mix consistency.

Primer - 1 part modifier: 2 parts water

For smooth surfaces use – 1 part modifier: 3 parts water

20kg bag – 2½ litres water: 2½ litres modifier for typical topcoat. Do not exceed 3 litres of water and 3 litres of modifier per 20kg bag. "Wet Mixes" 3:3 typically used for trowel or sprayed base coat.

MIXING INSTRUCTIONS

Do not mix by hand. Use a mortar stirrer attachment (from Designer Concrete Coatings) with an appropriate WorkCover tagged electric drill. Mix at slow speed for 2-3 minutes so as not to aerate the mix.

Pour 2 litres of water into an empty pail, and then add 2 litres of modifier (Part B). Briefly mix liquid then slowly add powder (Part A) whilst continually mixing.

Add water & modifier mixed at a 1:1 ratio not exceeding 2 litres until reaching the desired mix consistency. Maximum water / modifier ratio per 20kg bag must not exceed 6 litres.

SURFACE PREPARATION

All surfaces must be clean, sound and free of dust, moisture, oils and grease or other surface contaminants such as paints, curing compounds and release agents etc. Concrete surfaces must be acid washed, water blasted, grit blasted or mechanically scabbled depending on surface conditions.

The strength of the concrete or mortar substrate should be a minimum of 20MPa.

The prepared substrate should be thoroughly dry before applying the CRS3000 system.

Warning: do not apply over soft, chalky or dusty concrete or neither waterproof membrane on concrete flatwork. Seek Technical advice from Designer Concrete Coatings.

PLACEMENT

Primer: Paint roller, broom or spray unit.

Base coat: Trowel, squeegee or sprayed.

Topcoat: Sprayed (Hopper Gun)

- Apply primer to concrete surface. Let thoroughly dry.
- Apply base coat to concrete surface. Let thoroughly dry. Sand any rough or high areas.
- Apply pattern design.
- Apply CRS3000. Spray over entire area. Apply second coat for textured or trowelled finishes. Apply third coat for variegated colours.
- Remove pattern. Use mechanical blower to clean off the area. Then use a coarse broom to remove and overspray or dust from joints in the pattern. Repeat with mechanical blower.
- Apply 2 coats CRS3000 concrete resurfacing sealer.

IMPORTANT NOTE: The information given in this data sheet is for general guidance only and in no way replaces the services of professional consultants. The Publisher for its use accepts no liability. Independent contractors who bear responsibility for workmanship and proper installation under varying weather and site conditions apply the product. Warranty obligations of the manufacturer are limited to raw materials defects and production faults at the point of sale.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

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