

Technical Data Sheet

Rapidcote Primer



DESCRIPTION:

Rapidcote Primer is a 2-pack aliphatic urethane modified acrylic coating designed for use as the rapid cure primer for the Rapidcote system. Rapidcote Primer is also used as a primer coat on epoxy or polyester coves prior to the installation of Nuthane Gloss Topcoat

TYPICAL FEATURES | BENEFITS:

- Rapid cure.
- Fast return to service as part of the Rapidcote System.
- Rapid re-coat time.
- Good re-coatability.

PERFORMANCE DATA:

Properties	Values
Minimum Application Temperature: Air	+10°C
Minimum Surface Temperature:	+5°C
Maximum Application Relative Humidity: Air	85%
Moisture Vapour (BS 3177:1959)	36 gms permeability: mil/m2/24 hours
Flash Point:	+27°C
Pot-Life:	+20°C ~ 50%RH 1 hour
Touch Dry:	+20°C ~ 50%RH 1 hour
Hard Dry:	+20°C ~ 50%RH 12 hours
Recoat Time: ~ Minimum ~ Maximum	+20°C ~ 50%RH 2 hours minimum 24 hours <i>After 24 hours mechanical abrasion is required</i>
Full Cure:	+20°C ~ 50%RH 7 days
Coverage Rate	8m ² Litre / Coat
Number of Coats	One <i>Two coats may be required on very porous substrates.</i>
Solid Content:	48%
Volume Solids:	40%
Wet Film Build – theoretical	165 microns per coat
Dry Film Build – theoretical	66 microns per coat
Thinning:	Not Recommended
Clean Up:	Solvent HA. <i>However, cleaning brushes completely is very difficult. It may be best to use disposable brushes.</i>
Dangerous Good Class:	Refer SDS
Packaging: ~ Rapidcote Primer Part A ~ Rapidcote Primer Part B	3.5 litre open top metal container 500 ml screw top metal container
Shelf life:	24 months from date of manufacture (After opening, contents will have a limited shelf life)

COLOUR:

Rapidcote Primer is clear.

RECOMMENDED USES:

- Primer Coat for the Rapidcote System over existing: Epoxy | Polyester | Polyurethane | Vinyl Ester Floor, Toppings and Coatings
- Primer coat on epoxy or polyester coves prior to the installation of Nuthane Gloss Topcoat.

NOT RECOMMENDED:

- Application below +10°C air temperature.
- Application to incorrectly prepared surfaces.
- Application to unsound substrates.
- Application to damp substrates or during damp humid conditions.

SUBSTRATE: – Preparation

All substrates shall be stable and solid.

Note

All control joints junction cracks in the substrate etc. are to be properly treated.

CONCRETE:

Shall have a surface which has been mechanically trowelled to AS3610:1995 U3/NZ/3114:1987U3 finish.

A minimum compressive strength of 25MPa at 28 days cure.

A minimum of 28 days prior to the installation of Terratuff.

The moisture content shall be less than 75% RH.

PLYWOOD | TIMBER | FIBRECEMENT

Refer: Rapidcote Specification

RESIN FLOORS– Epoxy | Polyester | Polyurethane | Vinyl Ester

- Resin floors must be sound and stable.

QUALITY ASSURANCE:

The allnex Licensed Contractor shall ensure all QA checks have been undertaken prior to the installation process and subsequently during the installation process. The completed documentation must be made available to allnex and the client/clients authorised personnel. The product is to be installed within the required control range to ensure a fully cured hard wearing monolithic floor coating system.

Information to be recorded daily is:

- Material batch numbers used.
- Sequence of mixing, ratios and quantities and formula.
- Substrate moisture content & Substrate temperature.
- Ambient temperature | Ambient relative humidity.
- Daily detail of licenced contractors on-site.

SURFACE PREPARATION:

It is the allnex licensed contractors responsibility to inspect all areas which are to receive the Rapidcote Primer and the subsequent Rapidcote coating system and report and unsatisfactory conditions to the main contractor.

The surface to be coated must be clean and sound. Remove all dust, dirt, scale, laitance or any other contaminates.

Any previously coated areas are to be thoroughly cleaned. Unsound paints or coatings are to be removed to expose sound substrate.

Concrete:

- Prepare concrete by mechanical abrasion method to:- **CSP3**. (Concrete Surface Profile Scale - International Concrete Repair Institute)
- Remove all concrete curing agents, contaminants and any other material likely to affect the adhesion of the Rapidcote Primer.
- Do not apply over existing coating without checking compatibility (compatible with most 2 component coating systems). However over coating is not likely to be successful without strong, coarse sanding or abrasion.
- Prefill any large divots with allnex K125 or Epoxy Fairing Cream and diamond grind to remove any highpoints or contaminants.

Resin Floors – Epoxy | Polyester | Polyurethane | Vinyl Ester

- Remove all grease, wax and surface contamination.
- Prepare surface to CSP3.
- Ensure the floor is dry and free from Dew Point.

Resin Coves – Epoxy | Polyester

- Remove all grease, wax and surface contamination.
- Prepare surface to CSP3.
- Ensure the cove is dry and free from Dew Point.

RAPIDCOTE PRIMER KIT MIX RATIOS AND COVERAGE:

Rapidcote Primer Mixing Ratio		
Rapidcote Resin	3.5 litres	
Rapidcote Hardener	0.5 litres	
Coverage @ 8m ² / litre /coat	~ 1 x coat	32 m ²
	~ 2 x coats	16 m ²

Note
Allowances must be made based on the rates of application losses and surface irregularities.

MIXING METHOD:

Power mix at low speed (approximately 400-500rpm) for 2 minutes ensuring the Part A and Part B is homogeneously blended.
Mix slowly to avoid air entrapment.
Allow to stand for 2 minutes prior to use.

APPLICATION METHOD:

Application Method Types			
Roller	Brush	Conventional Spray	Airless Spray

Note
If spraying, care must be taken in cleaning equipment and to avoid “setting” of the Rapidcote in equipment if left to stand.

Note
If the application method is Airless Spray then the primer coat must be followed by the immediate back-rolling of the primer coat.

HEALTH & SAFETY: Refer: safety data sheets (SDS).

- Provide adequate ventilation if spraying in confined areas: Part B contains reactive Isocyanate.
- If spraying, wear protective clothing, gloves and eye and face protection, including suitable breathing protection such as an air supplied respirator or hood.
- Do not breathe vapour or spray.
- Flammable. Erect “No Smoking” signs. No welding or naked flames permitted during installation.
- Have fire extinguishers readily available.

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Allnex Construction products, a Division of Allnex New Zealand Ltd
Auckland - 14 Industry Road, Penrose, phone: 09-583-6544.
Hamilton - 18 Somerset Street, Frankton, phone: 07-847-8658.
Wellington - Unit 9A 4 Glover Street, Ngauranga Gorge, phone: 04-240-0305.
Christchurch - 112 Cartlyle Street, Sydenham, phone: 03-366-6802.
Customer Service: 0508-882-288 cs.constructionnz@allnex.com
www.allnexconstruction.com

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