

# Technical Data Sheet



## Rapidcote Rapid Cure Coating System

### DESCRIPTION:

Rapidcote is a two-part formulation consisting of Resin and a Hardener. Rapidcote is *very different* from all other systems. Normally; to achieve short cure times, the pot-life becomes very short and hence difficult to use.

Rapidcote has two very specific characteristics.

*Short cure time after application*

*Long Pot Life*

### TYPICAL FEATURES | BENEFITS:

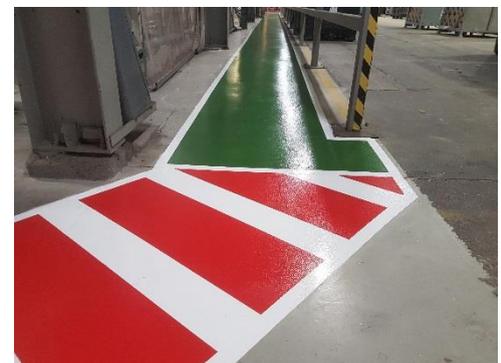
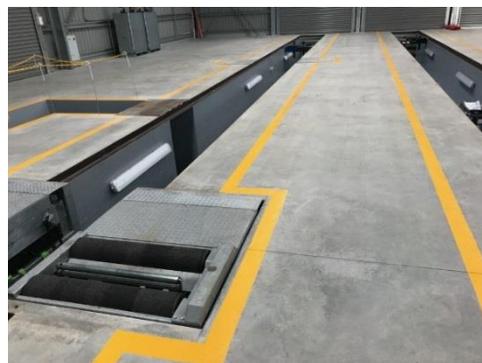


- Long Pot Life - will save cost as materials will not be wasted by pre-curing in-pail
- Short cure time after application –rapid return to in service requirements.
- Very good abrasion and scuff resistance.
- Very good UV stability
- Easily cleaned.
- Excellent adhesion to properly prepared substrates.
- Excellent slip resistance. Specification is needed of the degree required.

#### Note

*Please read detail contained within document.*

- Cured Film is non-toxic.
- Not moisture permeable.
- Colour: See colours listed below.



### COLOURS:

Rapidcote is available in the following colours: -

N35 Grey - S



N45 Grey - MTO



Safety Yellow - S



Green - S



White - MTO



Black -MTO



Red -MTO



Blue - MTO



Safety Blue -MTO



Stocked - S

Made to Order - MTO

**Rapidcote is also available in: - Clear**

**PERFORMANCE DATA:**

Properties	Values	
Minimum Application Temperature: Air	+5°C	
Maximum Application Relative Humidity: Air	80%	
In-service temperatures - wet : on fully cured system	-20 to +80°C	
Chemical Resistance:	Resistant to chemical spillage –cured 7 days at 25°C. <i>Refer: Chemical resistance section.</i>	
Slip resistance:	R11 to R13. <i>Refer: Slip resistance chart</i>	
VOC Emission: SPME-HS-GCMS	VOC = 176 g/L for Rapidcote - Colours VOC = 206 g/L for Rapidcote Clear	
Touch Dry:	+20°C ~ 50%RH	30 minutes
Hard Dry:	+20°C ~ 50%RH	4 hours
Recoat Time:	~ Minimum ~ Maximum	1 hour 48 hours
Full Cure:	+20°C ~ 50%RH	24 hours

**RECOMMENDED USES:**

- Ablution areas
- Construction and Mining Industry
- Factory floors
- Hospitality
- Pharmaceutical | cosmetic | clean rooms
- Rapid curing line marking
- Residential garages and workshops
- Seamless, smooth, hygienic floors
- Slip resistant floor finishes
- Warehouse
- Bulk Retail
- Chemical and Oil Industry
- Food processing & Storage plants
- Healthcare
- Pulp and Paper mills
- Resin floor coving top coating
- Retail and display areas: Vehicle showrooms | studios
- Sewerage treatment plants
- Vehicle Workshops

**NOT RECOMMENDED:**

- Application below +5°C. This will impede the flow, application and curing.
- Application to green (uncured) concrete.
- Application to unsound substrates.
- Application to incorrectly prepared surfaces.

**LIMITATIONS:**

- Substrate must be abraded.
- Priming is required where moisture content of the substrate is above 75%RH.
- Priming is required when there are contaminants on the surface that are not able to be ground clean.
- Surfaces must be dry. Take care in humid conditions.
- Must have good, positive cross ventilation.
- Not for use over existing coatings without first checking the compatibility. *Refer: allnex Construction Products for advice.*
- It is the user's responsibility to ensure the application is correct.

**CHEMICAL RESISTANCE:**

The following chart shows a representation of the chemical resistance of some of the colours available.  
Resistant to chemical spillage –cured 7 days at 25°C.

**Note**

Variables which may under extreme conditions, influence the chemical or corrosion resistance are:

- Temperature of chemical concentration.
- Intermittent or continuous contact.
- Application in adverse conditions.
- Risks of evaporation from spillage causing concentration to rise adversely.

Test Procedure	Observation	Results
Spot Testing.	Checked for chemical attack and hardness throughout the testing period.	Taken at the times specified.

Test Media	Concentration	Rapidcote											
		1 Hour Spot				4 Hour Spot				7 Hour Spot			
		Clear	N35	Tan	Safety Yellow	Clear	N35	Tan	Safety Yellow	Clear	N35	Tan	Safety Yellow
<b>ACIDS</b>													
Hydrochloric Acid	10%	N	N	N	N	N	N	SM	N	N	N	SM	N
Sulphuric Acid	10%	N	N	N	N	N	N	N	N	N	SM	SM	N
Sulphuric Acid	25%	N	N	N	N	N	N	N	N	N	SM	SM	N
Acetic Acid	10%	N	N	N	N	N	N	N	N	N	N	N	N
Acetic Acid	50%	N	SM	N	N	N	SM	N	N	N	SM	N	N
Nitric Acid	10%	N	SM	N	N	N	MH	N	N	N	MH	N	N
Citric Acid	10%	N	N	N	N	N	N	N	N	N	N	N	N
Lactic Acid	90%	N	SM	SM	N	N	SM	SM	N	N	SM	SM	N
Phosphoric Acid	30%	N	N	N	N	N	SM	SM	N	N	SM	MH	N
<b>ALKALIS</b>													
Potassium Hydroxide	30%	N	N	N	N	N	N	N	N	N	N	SM	N
Caustic Soda	50%	N	N	N	N	N	N	N	N	N	N	N	N
<b>SOLVENTS</b>													
Toluene		N	N	N	N								
Acetone		D	REC	REC	REC								
Isopropanol		N	N	N	N								
Methanol		N	N	N	REC								
<b>PETROCHEMICALS</b>													
Kerosene		N	N	N	N	N	N	N	N	N	N	N	N
<b>DISINFECTANTS &amp; CLEANERS</b>													
Dishwashing Liquid	100%	N	N	N	N	N	N	N	N	N	N	N	N
Bleach (2.5% Sod Hyd Cl)		N	N	N	N	N	N	N	N	N	N	N	N
MEKP – M50		REC	MH	MH	REC	REC	MH	MH	REC	REC	MH	SM	REC
<b>SALT SOLUTION</b>													
Brine	20%	N	N	N	N	N	N	N	N	N	N	N	N
<b>OTHERS</b>													
Sugar Syrup	30%	N	N	N	N	N	N	N	N	N	N	N	N
Distilled Water		N	N	N	N	N	N	N	N	N	N	N	N

**LEGEND:**

<b>N</b>	No mark   No Effect	<b>SM</b>	Slightly Marked
<b>D</b>	Damaged   Blister	<b>MH</b>	Marked Heavily
<b>REC</b>	Recovered	<b>EF</b>	Evaluate Further

*REC- Recovered (there was something there after removing the chemical, but it recovered quickly to undetectable)*

**Note**

Chemical spillages should be cleaned up immediately.

**NON-SLIP:- floor definitions:**

The contractor shall ensure that the surface finish in all zones is agreed with the client.

*(Samples to be supplied and agreed prior to start of the contract)*

Rapidcote Type	Description	Description	CF Rating	SRV Rating	R Rating	Non - Slip
	Installation Type	Finish Type	NZ/AS 3661.1 1993	AS/NZS 4586		Application Rates
Type A	Smooth: Roller applied -	Smooth	0.46	41	R11	
Non-Slip Class 1	Fine/Medium duty non-slip: Roller applied with the addition of:- ~ Microcells <i>Mixed into the Rapidcote prior to application. Applied in the second to last coat.</i>	Fine non-slip	0.54	50	R11	@50grams/4 Ltr
	~ Rvtred <i>broadcast into the second to last coat</i>	Fine-Medium non-slip	0.56	51	R12	12 grams / m <sup>2</sup>
Non-Slip Class 2	Medium duty aggregate: non-slip: Roller applied with the addition of:- ~ J61 Sand ~ Q900 <i>Broadcast into the wet Rapidcote coating with further coats over the aggregate Broadcast</i>	Fine – Silica Sand	0.63	57	R12	1.0 kg / m <sup>2</sup>
		Fine – Medium Garnet	0.73	64	R13	

**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. *(Refer allnex Bulletin on application options for wet or uncured concrete).*

**Metal:**

Metal must be sound.

Particular attention must be given to the preparation of bolts and securing fixtures and that any damaged items are replaced prior to the installation of the protective coating system.

**PLYWOOD | TIMBER | FIBRECEMENT**

*Refer: Rapidcote Specification*

**COVE TOPS:**

Install allnex cove upper termination metal strips: **5.2mm or 9.2mm rebated strip.***(Refer: Typical Resin Flooring Details Document)*



Cove Strip 5.2mm



Cove Strip Rebated 9.2mm

If the coving strip cannot be used refer to the Resin Flooring Details Document for options.

## RESIN FLOORING DETAILS

Refer: [Typical Resin Flooring Details Document](#)

### FALLS TO WASTES:

STZ prefill system (for adding falls, slope modification and floor angles).

Types: Refer: [STZ Prefill Technical Literature](#).

The falls must be specified pre-tender. (*Rapidcote is thin film coatings system and prefill may involve significant extra materials*).

The quantities of materials required to raise the floor height at wall perimeters is often underestimated.

To do this may involve significant extra costs and should be discussed and agreed.

It is a very common for STZ prefill system to be used under Rapidcote to create falls to drains and other filling applications.

Normally for new work falls are laid in the concrete and fall to drains.

However; in refurbishment situations the drains and falls are incorrect. Sometimes new drains are installed.

The Prefill can be installed to any thickness to create falls.

If the project is a food processing facility, ensure that your requirements fall within the guidelines of current legislation.

Floor Fall Definitions	
1:50	Liquids will free run to drainage
1:80	Liquids will migrate to drainage
1:100	Some ponding of liquids will occur, squeegee to drainage will be required.

### JOINTS:

All concrete control and construction joints should be carried through the Rapidcote.

Jointing Options	
Control   Construction Joints	Cold Joints   Non-Movement Joints
allnex K130 or allnex Sabre Seal SMP60	allnex K130 or allnex Sabre Seal SMP60

### QUALITY ASSURANCE:

The allnex approved Applicator 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:

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

### CLEANING & MAINTENANCE:

#### Cleaning:

Refer: [Cleaning Maintenance Document](#)

#### Repairs:

Can be undertaken with further new Rapidcote applied directly.

#### Resurfacing:

allnex recommend **two** (2) options:

##### Smooth System

- Re-surfacing with further coats of Rapidcote.

##### Profiled | Non-Slip System

- A second option is Rapidcote Non-Slip which will reinstate the non-slip properties or add non-slip to a previously smooth surface finish.

### FIXING OF PLANT AND MACHINERY:

Mechanical fixings into the substrate must be resin fixed. This is to ensure that there is no water migration into the substrate.

Conventional expanding plugs, screws or anchors are not an acceptable fixing method.

## PRODUCER STATEMENT:

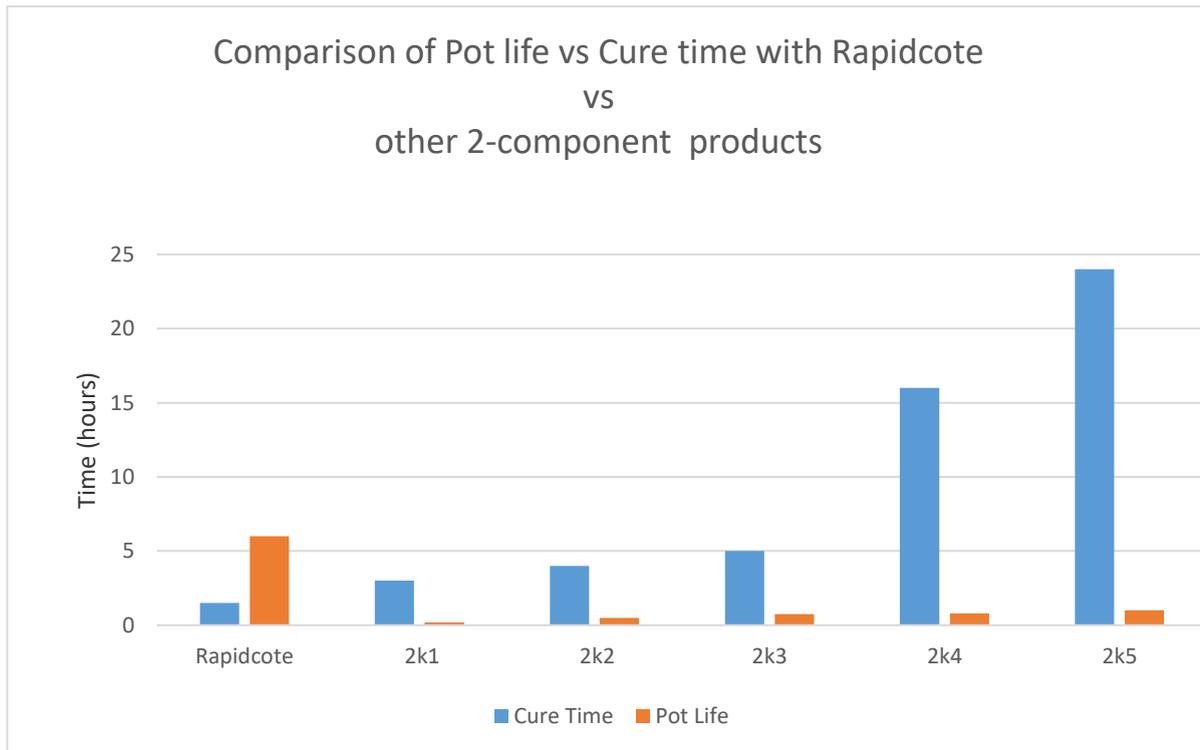
allnex Construction Products state that:-

Rapidcote is compliant with:

- HACCP International Requirements.
- E3 Internal water 3.1.1e.
- D1 (Access routes / slip resistance wet & dry).
- Complies with CLEANROOM and controlled environment:-AS/NZS ISO 14644.4: 2002 section E.2.1.4 Floors:-
  - *That the floor shall be non-porous, slip resistant, abrasion resistant and resistant to chemicals.*
  - *That they shall support static and dynamic loads.*

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

- Applicators are to comply with all current legislation when using this product.



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