

# Technical Data Sheet

## Nuthane Gloss Topcoat Rapid Cure System



### DESCRIPTION:

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

Nuthane Gloss Topcoat has two very specific characteristics:

*Short cure time after application*

*Long Pot Life*

### TYPICAL FEATURES | BENEFITS:

- Very good abrasion and scuff resistance.
- Very good UV stability
- Excellent adhesion to properly prepared substrates.
- Not moisture permeable.
- 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.
- Excellent adhesion to properly prepared substrates.
- Easily cleaned.
- Cured Film is non-toxic.

### 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 chart</i>
Heat resistant:	+80°C
VOC Emission: SPME-HS-GCMS	Clear 206 g/L      Colours 176 g/L
Slip resistance:	Slip resistance variables available with added non-slip aggregates used in the Nuthane Basecoat R11 to R13. <i>Refer: Nuthane SB   Nuthane SBM</i>
Solids Content:	Clear 74 -80%      Colours 85 -90%
Pot Life	+20°C ~50%RH      6 hours <i>The lid must be kept securely fastened (see Pot Life below)</i>
Touch Dry:	+20°C ~50%RH      30 Minutes
Hard Dry:	+20°C ~50%RH      4 Hours
Recoat Time:      ~ Minimum ~ Maximum	+20°C ~50%RH      1 hour 48 hours
Full Use:	+20°C ~50%RH      > 24 hours
Thinning:	Not recommended
Clean Up:	Solvent HA
Dangerous Good Class:	Refer SDS
Packaging:      ~ Nuthane Gloss Resin - Colour ~ Nuthane Gloss Resin - Clear ~ Nuthane Gloss Hardener	14.7 kg - 10 litres 9.8 kg - 10 litres 1 kg - 1 litre
Shelf life:	12 months from date of manufacture. <i>(After this period consult with allnex)</i>

## COLOURS:

Nuthane gloss Topcoat is available in the following colours to match the Nuthane Basecoat colours:



*Nuthane Gloss Topcoat is also available in: - Clear and N35 Light Grey*

## RECOMMENDED USES:

- As the Topcoat for the Nuthane SB and Nuthane SBM systems.

## NOT RECOMMENDED:

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

## LIMITATIONS:

- 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.

## SUBSTRATE:

All substrates shall be stable and solid.

## 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*

## 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:-

Nuthane SB and Nuthane SBM is compliant with:

- HACCP International Certification.
- 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.*
  - *Complies with fire ratings.*

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

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

**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	1 Hour Spot				4 Hour Spot				7 Hour Spot			
		Clear	N35	Tan	Other Colours	Clear	N35	Tan	Other Colours	Clear	N35	Tan	Other Colours
<b>ACIDS</b>													
Hydrochloric Acid	10%	N	N	N	N	N	N	SM	SM	N	N	SM	SM
Sulphuric Acid	10%	N	N	N	N	N	N	N	N	N	SM	SM	SM
Sulphuric Acid	25%	N	N	N	N	N	N	N	N	N	SM	SM	SM
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	SM	N	SM	SM	SM	N	SM	SM	SM
Phosphoric Acid	30%	N	N	N	N	N	SM	SM	SM	N	SM	MH	MH
<b>ALKALIS</b>													
Potassium Hydroxide	30%	N	N	N	N	N	N	N	N	N	N	SM	SM
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	N								
<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	MH	REC	MH	MH	MH	REC	MH	SM	SM
<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)

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The logo for Allnex, featuring the word "allnex" in a bold, lowercase, sans-serif font. The letters "a", "l", "l", "n", "e", and "x" are white, while the letter "i" is colored with a gradient from purple to green. A horizontal line with a similar color gradient is positioned above the letters.

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