

PRODUCT CHARACTERISTICS

Chem-deck **Nano-lite™ UL** is a lightweight, low density, polymeric screed that provides significant weight saving benefits. Ideal for deck covering of seagoing vessels (all areas, including wet and dry).

This results in improved buoyancy, fuel efficiency and sea going performance.

Nano-lite™ UL is easy to apply/repair, spreads evenly to form a hard wearing, relatively flexible and tread resistant finish that will last for many years with low maintenance.

Can be applied on vertical surfaces to form a seamless coving.

Nano-lite™ UL-M is solvent-free, non-toxic and flame retardant, comprises of advanced polymeric materials that offer improved physical/fire characterisation properties and significant labour-saving benefits.

Nano-lite™ UL is surface tolerant and may be applied to metallic and non-metallic substrates with no loss of adhesion.

PRODUCT DESCRIPTION

100% solids, solvent-free, low density polymeric screed.

COMPATABILITY PROPERTIES

Product is surface tolerant and can be applied on most substrates with no discernible loss of adhesion. Specifically designed as an underlay for Chemco solvent-free topcoats.

PRODUCT INFORMATION

Colour:	Standard grey (other colours available on request).
Volumes solid:	100%
Mix ratio:	Mix Part A (Nano-lite™ resin), Part B (Nano-lite™ hardener) and Part C (aggregate).
Density:	0.75 ± 0.05g.cm ⁻³
Pot life @ 20°C:	90 mins.
Drying time @ 20°C:	Tack free: 12-16 hrs. Hard dry: 18 hrs. Light traffic: 24 hrs. Heavy traffic: 3 days.
Full cure:	1.0 - 10.0mm.
Typical thickness range:	1m ² /ltr @ 1mm.
Theoretical coverage:	Allow for losses due to surface porosity, irregularities, etc. Trowel and roller.
Application method:	No thinning agents to be added.
Thinner:	S11A.
Cleaner:	5 and 20 ltrs.
Pack size:	

FIRE CHARACTERISATION

Chem-deck™ **Nano-lite™ UL-M** is classified as Class 1 rating, surface spread of flame in accordance with BS 476, Part 7: 1987.

The product has a fire propagation index value of < 5 in accordance with BS476, Part 6: 1989.

Surface Preparation

Remove evidence of grease, oil and other contaminants by degreasing surface(s) using recommended cleaner S11A.

abrasive blasting

To achieve best results and ensure optimum longevity, surface(s) to be coated should be abrasive blasted to Sa 2½ with minimum surface profile of 75 microns in accordance with ISO 8501-1 .
Prior to application, vacuum clean the area to remove dust, loose debris, etc.
The coating should be applied within 4 hrs of abrasive blasting.

hand/mechanical preparation

Product can be applied direct to surfaces with minimum St 3 standard. For St 2 standard, use Epo-chem™ RS 500P.

Priming

In specific circumstances, (e.g. when protecting large areas prepared by abrasive blasting, etc) it is advisable to consider using a primer.

Chemco recommends the use of the following primers:-

Epo-chem™ RX 500P (water-based primer) an excellent primer for difficult substrates and low profile surfaces: The use of this product is recommended to comply with fire and smoke regulations.

Epo-chem™ RS 500P (solvent-free, wet & rust tolerant primer): This unique primer is ideal for sub-standard, wet or rusty surfaces. Please refer to the data sheet for limitations.

Mixing Instructions

Product is supplied in pre-weighed quantities.

Never part mix.

Mix materials in a segregated area, restricted from effects of weather.

The area should be kept clean to prevent contamination of coating during mixing.

Open the lid and take out containers Part A and Part B.

Empty the aggregate from the bucket into a clean container.

Now mix Part A and Part B in the bucket until an even consistency is achieved.

Slowly add the aggregate to the mix (Part A + Part B) and continue until all aggregates are mixed and an even consistency is achieved (approx 5 minutes).

Application

Protect area(s) not to be coated by sealing with masking tape.

Apply product by trowel, spread firmly and evenly to achieve a smooth or regular and continuous finish, free from deleterious materials.

The material should be applied as soon after mixing as possible and within the defined pot life interval.

When applying material, the trowel/roller may be wetted with water for aiding application to make the coating spread easily.

For areas where the underlay has to be formed, (e.g. complex geometric designs/recesses, etc..) follow and cover the area by using a trowel and/or fillet knife.

Smooth off surface finish by wetting the knife with a small quantity of water.

DISCLAIMER: The information contained herein is, to the best of our knowledge, accurate and current and is given in good faith without warranty. Users are deemed to have satisfied themselves independently as to the suitability of our products for their particular purpose. In no event shall Chemco International be liable for consequent or incidental damages.

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LIMITATIONS

Pot life: Vigilant care and attention to pot life is required during application.
If gelling has started, do not apply.

ENVIRONMENTAL CONDITIONS

There are no humidity or dew point restrictions.
Good air flow is required.

Recommended application temperature: 15 - 25°C.
Preferably do not apply at temperature below 10°C.

SAFETY PRECAUTIONS

It is the policy of CHEMCO INTERNATIONAL to ensure that its products are handled and applied by professionally approved and skilled applicators.
Application shall be carried out in accordance with instructions contained in this data sheet and referenced to CHEMCO INTERNATIONAL TECHNICAL SPECIFICATION MANUAL.
CHEMCO INTERNATIONAL management are intent on ensuring all work is carried out in accordance with company HEALTH & SAFETY procedures and all materials are handled with due care to COSHH regulations and instructions.

STORAGE

Store in cool, dry conditions (not less than 4°C or above 20°C).
Keep away from direct heat source and sun-light.
Ensure unmixed containers are sealed (lid tightly fitted). If loose, re-seal and/or replace with new lid.

SHELF LIFE

At least 12 months when stored in sealed containers at temperatures of not less than 4°C or above 20°C.
At temperatures above, refer to manufacturer for advice.

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