

# THE LAB<sup>o</sup>

## Chemicals & Coatings

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### ELITE SATIN

#### TECHNICAL AND MATERIAL SAFETY DATA SHEET

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#### SUPPLIER IDENTIFICATION AND INFORMATION

Manufacturer name	THE LAB Chemicals & Coatings
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## PRODUCT IDENTIFICATION

Product name	THE LAB Elite Satin
Product Description	Elite Satin is a Satin / Eggshell finish available in white, pastel, deep, and clear base. Elite Satin is a high quality, water-based, pure acrylic emulsion coating. The coating is zero to low VOC, environmentally friendly and does not emit noxious fumes and odours during and after application. The product is a protective coating with excellent waterproofing and washable characteristics that in contrast to water-based paints, contains only 8 - 10% water.
Principal Characteristics	<ul style="list-style-type: none"> <li>• Due to its unique formulation, Elite Paint acts as a one-way membrane, allowing moisture to escape to the surface but prevents moisture ingress into the treated structure.</li> <li>• A high degree of elasticity - will never harden.</li> <li>• Excellent adhesion to practically any surface</li> <li>• Colour fastness. (UV protection by natural pigmentation)</li> <li>• Fungi resistant</li> <li>• Excellent Heat resistant properties</li> <li>• Will not harden or deteriorate with age</li> <li>• Withstand aggressive scrubbing</li> <li>• Has low flame index</li> <li>• Non-toxic and odourless on application no H.A.P.</li> </ul>
Intended use	The product is an ideal coating for plastered walls, ceilings and Nutec fibre cement fascia boards, as well as other areas where satin finish is required. It is a pure acrylic emulsion paint for application to most substrates for decorative and corrosion protection purposes in moderate environments.

## COMPOSITION

TECHNICAL DATA:	
Solid Content	Minimum 39%
% Solid by Volume	Minimum 31%
% PVC	Approximately 43%
Drying Time @ 20°C for 25 micrometre coating and RH < 75%	Touch Dry: 30 - 60 Minutes Re Coat: 60 Minutes Normal surface: 60 Minutes
Theoretical Spreading Rate	9-12m <sup>2</sup> /litre @ 30 - 35 micrometres DFT. This spreading rate is for a smooth surface for reasons of convenience and comparison. The applicator must calculate the practical spreading rate.
Colour	Standard colours /pastel -/deep- and clearbase
Solvent	Water
Flash point	Water based - NOT flammable
Thinner	Must NOT be thinned
Pigments	Organic or inorganic pigments
Specific Gravity	Approximately 1.2
Pot Life	No Limitations

Shelf Life	2 years form date of manufacturing
Cleaner	Water
Thickness Recommended	(Micrometre)DFT30-35 W FT 90-140 per coat (Concrete, plaster, masonry) (Micrometre)DFT 75 W FT 150 Surface roughness will affect the measurement of wet and dry film thickness. Dry film thickness per coat as given is for the guidance of the applicator. Individual applicators must ascertain for them selves as to what thickness can be attained with their equipment.
Application	Suitable to apply with a brush, roller and/or spray gun.
De-canning Sizes	1Litre 5 Litre 20 Litre

## HAZARD IDENTIFICATION

Primary route of exposure:	
Inhalation	No effects observed during application in confined space.
Eye contact	Direct contact with material can cause slight irritation.
Skin contact	Prolonged and repeated contact cause no irritation. No specific symbols are required for the use of the products - the products are not combustible or flammable and do not have specific acute, chronic or toxic effects on humans, nor are they harmful to the natural environment when released.

## FIRST AID MEASURES

Eye contact	Flush eyes with large amount of water, if irritation persists, consult a physician.
Skin contact	Wash the skin with soap and water.
Ingestion	Drink plenty of water.

## FIRE-FIGHTING MEASURES

When applied on surfaces: Non-combustible, could act to retard the spread of flame.

- SABS test: 653/82156/G3503  
Spread of flame index
- Singapore Institute of Standards and Industrial Research test; G 158352/MW  
Spread of flame index: 0.0
- British Standard 478 part 7 - 1971 - class one (exceeding class 3 limits)
- SABS test: 321/85151/G152.

Smoke toxicity index	Toxic gas factor - 1.0.
W hen cured (not applied)	Can burn.
Extinguishing agents	Normal foam, powder, water spray, or carbon dioxide (CO2).

## ACCIDENTAL RELEASE MEASURES

Personal precautions	Follow normal safety precautions and if spillage occurs in a confined space, ensure there is adequate ventilation. There is no LD 50 data available for the products and the concentrations of particularly hazardous materials are so low that they are not considered a significant hazard under the recommended conditions of use.
Environmental precautions	No environmental hazard when applied on surfaces or cured (solidified). No threat to fresh or seawater animal life.
Methods for cleaning up	Contain the spillage with sand or earth and take up spilled material (if possible) on a non-flammable absorbent (sand, earth, diatomite, chemical binders) and put in an appropriate container. Label the container with the waste designation, and dispose according to the legislation - do not use solvent.

## HANDLING AND STORAGE

Safe handling advice	Avoid direct contact with skin and eyes. Avoid inhalation and ingestion. Take personal protective measures and follow the protection and safety regulations. When working with coating products in a spray cabin, sufficient control of aerosols are unlikely and breathing apparatus such as respirators can be worn during spraying if preferred.
Measure to prevent fire	No specific preventative measures are required but keep the application area well ventilated.
Requirements for storage	Store in original containers (if possible) and keep tightly closed in a cool, dry, well-ventilated area. Although the products are not defined as dangerous goods, protect the products from direct extreme heat such as sources of ignition. Avoid direct sunlight and do not store in conditions below freeze-point.
Shelf life	±2 years if well sealed.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limit: OSHA PEL 15 mg/m (total dust), 5 mg/m (respiration fraction)

Personal protection:	
Respiratory protection	Respiratory programme must be followed whenever workplace conditions warrant a respirator's use. Not required if airborne concentrations are maintained below exposure limit listed in exposure limit information.
Eye Protection	Safety glasses with impenetrable side shields are recommend.
Skin protection	Gloves may be used if required, but no known effects have been observed.

## STABILITY AND REACTIVITY

Stability	Stable when following the handling and storage recommendations.
Conditions to avoid	Avoid temperatures above 177°C, direct sunlight and below freeze point for storage conditions.
Incompatibility	None known
Hazardous decomposition	By fire - carbon dioxide (CO <sub>2</sub> ) and carbon monoxide (CO).

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquids
Colours	ELITE PAINT range of standard colours with tint basis for pastel, deep & clearbase colours
Odour	Characteristic of the specific product (faintly similar to a PVA paint product in some cases)
PH	-8 -9
Reactivity	Salt fog resistant
UV Resistance/Weathering	75 000 hours - No visible breakdown
Density	> 1 gm/cm
Vapour density	Heavier than air
Solubility	Miscible in / with water prior to cure
Evaporation rate	< 1 water (see section 5)

## TOXICOLOGICAL INFORMATION / HEALTH EFFECTS

Acute toxicity	No known effects - health hazard rating in group 4 (minimal) of the Recommended Practice (ARP 006: 1991) guideline
Skin contact	No known effects
Eye contact	Splashes can cause eye irritation
Chronic toxicity	No known effects
Carcinogenicity	No known effects
Mutagenicity	No known effects
Neurotoxicity	No known effects
Reproductive hazards	No known effects
Additional information	The products have not been tested, but their classifications calculated according to conventional methods from the dangerous substances regulations. The products have been used to paint aquariums that house tropical fish and ponds that house Koi fish with no effects at all. The products do not emit noxious fumes or odour during and after application.

## ECOLOGICAL INFORMATION

Aquatic toxicity	No known effects
Biodegradability	Products are considered highly biodegradable, but not tested
Bioaccumulation	No known effects
Mobility	Not tested
Additional information	The product is environmentally friendly with a very low VOC (Volatile Organic Compound) as tested by the Huntingdon / SW L laboratories, Report number: 261394 - 23093 and described by America as a revolutionary breakthrough.

## DISPOSAL CONSIDERATION

Disposal key	080103 - EW C waste from water-based paints.
Disposal method	Hand over empty packaging to an authorised disposal company/waste company - the waste regulations of the appropriate authorities are to be followed.

## TRANSPORT INFORMATION

ADR / FID (Road)	Not dangerous materials according to these regulations.
GGVSee / MDG (Maritime)	Not dangerous materials according to these regulations.
IATA (AIR)	Not dangerous materials according to these regulations.

## REGULATORY INFORMATION / EEC CLASSIFICATION

EEC hazard classification	None of the substances of the products are classified by the EEC as hazardous.
TSCA certification	All of the substances in the products are listed, or exempt from listing, on the TSCA.
National legislation	Pay attention to the Occupational Health and Safety Act.

## OTHER INFORMATION

All data is based on the current knowledge of THE LAB and describes the product with reference to safety data and is therefore not intended to guarantee certain properties.

## APPLICATION INSTRUCTIONS AND TECHNICAL DATA

- These instructions are not intended to show product recommendations for specific services.
- They are issued as an aid in determining correct surface preparation and application procedures.
- It is assumed that the proper recommendations have been made.
- These instructions should be followed closely to obtain the maximum service from the material.

### Features Included:

- Quick drying - overcoat 30 - 60 minutes
- Excellent flexibility - will never harden
- Ultraviolet and weather resistant: 75, 000 hours +
- Good abrasion resistance

- Exceptional performance in wet weather.
- Rust prevention
- Colour fastness
- Zero flame spread

**Recommended use:** Exterior and interior walls, structural steel, piping, tank frames, rail cars, corrugated iron, offshore oil and gas stations, boats, wood, asbestos, glass fiber, copper, glass and aluminum.

**Excellent resistance to:** Acids, alkalis, water, salt solutions and solvents.

**Temperature resistance:** Minus 50°C - 180°C. At 110°C loss of gloss is observed, and discoloration takes place, without loss of film integrity.

**Application:** Suitability prepared concrete, metal and any surfaces as recommended.

**Compatible Coatings:** A test patch is recommended before use of most coatings. Contact your THE LAB dealer for specific information.

## REQUIREMENTS FOR STORAGE AND APPLICATION

Parameter	Storage (Unopened)	Paint	Substrate	Environment
% RH (Relative Humidity)	100 % Maximum	-	Min 2°C above Dew Point	85 % Max
Temp °C Min	5°C	5°C	5°C	5°C
Temp °C Min	40°C	40°C	40°C	40°C

## SURFACE PREPARATION

All surfaces must be prepared using either THE LAB Bind, THE LAB Prime, THE LAB 3-in-1 undercoat, THE LAB Metalltreat or THE LAB Roof & Pond Sealer. Previously painted and old primed surfaces must be cleaned by removing all grease.

## APPLICATION

Suitable to apply with brush, roller and spray.