

THE LAB^o

Chemicals & Coatings

FLOORPAINT

TECHNICAL AND MATERIAL SAFETY DATA SHEET

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SUPPLIER IDENTIFICATION AND INFORMATION

Manufacturer name	THE LAB Chemicals & Coatings
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THE LAB Floorpaint

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Product Description:

The product is acrylic based floor paint for medium to high impact areas.

The product is environmentally friendly and does not emit noxious fumes and odours during and after applications. The product has an extremely low VOC content. The product will cause no flame spread and has fire-retardant properties. Low sheen/silk finish available in standard colours, Modern Brown, Terracotta, Black, Green, White, Red, and Yellow.

Principal Characteristics:

- High film builds to cover irregular surfaces.
- The product is non-toxic and Zero H.A.P.
- Has an excellent adhesion to most substrates, which has been primed with THE LAB Bond.
- Non-combustible, could act to retard the spread of flame.
- Quick drying and multiple coats can be applied in the same day.
- Is supplied ready for application and does not require thinning, it is advised not to thin the product at all.
- No noxious fumes or odours during painting and no need for solvents.
- Cleaning is conducted with water.

Intended uses:

Good impact resistance and is suitable for all floor surfaces and has good waterproofing qualities.

Has good abrasion resistance.

Technical Data:

%Solid by Mass % Solid by Volume	Minimum 90% Minimum 95%
Drying Time @20°C for 1 micrometer coating and RH <75%	Touch Dry : 10-30 Minutes Re Coat : 1 – 2 Hours Normal surface : 36 Hours Full Cure: 8 Days
Theoretical Spreading Rate	8 – 10m ² /litre (Coat) DFT 2 This spreading rate is for a smooth surface for reasons of convenience and comparison. The applicator must calculate the practical spreading rate.
Colour	Cement Grey can be tinted to various pastel colours

Solvent	Water
Flash point	Water based – non flammable
Thinner	Must NOT be thinned
Pigments	Organic or inorganic pigments
Specific Gravity	Approximately 1.25
Shelf Life	24 months form date of manufacturing
Pot life	8 Hours from opening
Pigments	Chrome and Iron
Cleaner	Water
Thickness Recommended	Minimum 1mm Maximum as required 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 themselves as to what thickness can be attained with their equipment.
De-canning Sizes	1Litre 5 Litre 20 Litre
Application	Suitable to apply with a Sheep Skin Roller and a Brush. If the product is applied to thick its will crack. Floor paint should be applied in layers

Requirements for Storage and Application

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

Surface Preparation:

All surface that need to be applied must be cleaned with Biowash to help remove all loose material, particles and contaminations.

The surface must be dry and clean before undercoat can be applied.

Ensure to ask your supplier to advice the right undercoat and surface preparation before application.

1. Hazard identification

Primary route of exposure:	
Inhalation:	Ensure proper ventilation during application in a confined space.
Eye contact:	When in direct contact with material you need to wash out with water and seek immediate medical attention.
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.

2. 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.

3. Fire-fighting measures

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

Smoke toxicity index:	Toxic gas factor – 1.0.
When cured (not applied):	Can burn.
Extinguishing agents:	Normal foam, powder, water spray, or carbon dioxide (CO ₂).

4. 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.
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Environmental precautions:	No environmental hazard when applied on surfaces or cured (solidified). No threat to fresh or seawater animal life.
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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.
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5. 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 is 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.

6. Exposure controls / personal protection

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

Personal protection:	
Respiratory protection	Respiratory programs 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.

7. Stability and reactivity

Stability	Stable when following the handling and storage recommendations.
Conditions to avoid	Avoid temperatures above 40°C, direct sunlight and below freeze point for storage conditions.
Incompatibility	None known
Hazardous decomposition	By fire – carbon dioxide (CO ₂) and carbon monoxide (CO).

8. Physical and chemical properties

Odour:	Characteristic of the specific product
PH:	~8 -9
Reactivity	Salt fog resistant
UV Resistance/Weathering:	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)

9. 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 themselves have not been tested, but their classifications calculated according to conventional methods from the dangerous substances regulations. The products do not emit noxious fumes or odour during and after application.

10. 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 / SWL laboratories, Report number: 261394 – 23093 and described by America as a revolutionary breakthrough.

11. Disposal consideration

Disposal key	080103 – EWC 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.

14. 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.

15. 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.

16. 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:

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- Good abrasion resistance
- Exceptional performance in wet weather.
- Zero flame spread

Good resistance to:

Acids, alkalis, water, salt solutions and solvents.

Temperature resistance:-

Minus 0°C - 90°C. At 80°C loss of gloss is observed and discoloration takes place, without loss of film integrity.

Application:

Suitability prepared concrete and any surfaces as recommended. Do not use on untreated or rusted metal surfaces.

Compatible Coatings:

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

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Surface Preparation:

Previously painted and primed surfaces must be cleaned by removing all grease, paint and loose friable dirt with THE LAB Biowash. Old enamel or oil painted surfaces should be sanded to a matt finish. Trial patches are required prior to full application.