

Aralox® - FL200

100% Solids Epoxy Floor Coating

PRODUCT DESCRIPTION

Aralox-FL200 is a high viscosity 100% solids, coloured epoxy that allows high film build applications. The Aralox-FL200 uses the same pigments as Aralox-FL170 and can use a variety of non-slip media to achieve a trafficable finish.

INTENDED USES

- Heavy-duty flooring
- Commercial warehouse or factory flooring
- Hospital flooring
- Residential Garage Floors
- Internal flake flooring

FEATURES

- Low VOC
- Fast cure at ambient temperature
- High abrasion & Impact resistance
- Good wear resistance
- Convenient 2:1 by volume mix ratio
- Full cure down to 5°C

PRODUCT DATA

Volume Solids	100%
Theoretical Coverage	5 Square meters / litre at 200 Microns DFT
Finish	Pigmented
Colour	Australian standard (AS2700)
Gloss	High
Mixing Ratio	2:1 by volume
Pot life	25 Min @ 25°C
Typical Thickness	100 to 200 Microns DFT (100 to 200 Microns WFT)
Cleaner	LM1 Thinner
Flash Point	> 90°C
VOC	0 Grams / Litre
Specific Gravity	1.34

CURE & RECOAT

Substrate Temp	Tacked	Hard Dry	Full Cure	Minimum Recoat	Maximum Recoat
5°C	12 Hrs	24 Hrs		24 Hrs	6 Days
10°C	9 Hrs	18 Hrs		18 Hrs	6 Days
15°C	6 Hrs	12 Hrs		12 Hrs	4 Days
25°C	3 Hrs	6 Hrs	7 - 14 Days	6 Hrs	2 Days
40°C	1 Hrs	3 Hrs		3 Hrs	1 Day

Note: Exposure to UV will reduce the recoat window.

ENGINEERING DATA

Property	Test Method	Result
Abrasion resistance	ASTM c501-84, 1,000rpm with 1,000g weight H18 wheel	98

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POTLIFE

Mixed Product Temperature	Pot Life (Note 1)
10°C	75 min
15°C	50 min
25°C	25 min
40°C	12 min

Note 1: Potlife is dependent on product temperature as well as mix size. When using larger mix sizes, the pot life will be shorter. Keep products cool.

LIMITATIONS

- Gel time and thin-film dry times are heavily dependent on temperature, humidity and film thickness.
- Thick films will take longer to cure. High humidity and temperature will shorten thin-film cure time.
- UV exposure will yellow the Aralox-FL200.

SURFACE PREP

Concrete

The concrete surface preparation must be conducted under the SSPC-SP13/NACE No. 6 surface preparation standard for concrete. This standard covers the preparation of concrete surfaces before the application of protective coating or lining systems.

The concrete should be at least 28 days old. Ensure that the moisture content of the concrete is less than 7% before applying any coatings. A moisture test, as outlined in ASTM D4263, can be used to confirm the moisture content.

1. Remove all oil, grease and release agents in the concrete. Ensure that any laitance or other invisible contaminants have been removed. Be especially careful with concrete surfaces that have been in contact with form ply or moulds that may contain release agents. These release agents commonly contain heavy hydrocarbon waxes or silicones that can adversely affect the adhesion.
Contaminant may also be present below the surface as it may have penetrated the concrete. This can be the case in food processing facilities for example. Depending on the depth of the contaminant this may require solvent and / or hot water high pressure cleaning.
Prepare the concrete surface to a clean, dry finish through ensuring that the water and air used in the decontamination of the concrete is clean.
2. Fill bug holes with PU sealant, Aralox-FL170 mixed with Renderfill or other approved filler material
3. Restore exposed aggregate surfaces back to the original profile by rendering with a mixture of Civilox-LV100 and Renderfill (a proprietary blend of clean, dry sand)
4. Remove high spots and protrusions, radius sharp edges and corners. Cove internal 90 degree angles with 45 degree, 20mm flat chamfer
5. Prepare the concrete surface in accordance with SSPC-SP13 / NACE 6. Smooth, shiny concrete must be roughened to a profile similar to 80 grit sandpaper or CSP2 - 5 or as documented in the coating system specification. Surface preparation methods employed can be vapour abrasive blasting, dry abrasive blasting, hydro blasting, mechanical scabbling or diamond grinding. Acid etching is not an acceptable surface preparation method.

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APPLICATION

Equipment

Roller (Preferred):	Suitable
Airless 60:1 Pump:	Tip Range 21-26 Thou (0.53-0.66 mm). Output fluid pressure at spray tip not less than 3000 Psi (210 kg/cm ²)
Brush:	Suitable for small areas
Temperature of material at gun:	Ambient (20 – 30°C)

Environment

Relative humidity:	The relative humidity must be less than 85%
Dew point:	The substrate temperature must be at least 3°C higher than the dew point temperature
Substrate Temperature:	The substrate temperature must be a minimum of 5°C

Mixing

Always stir Aralox FL200 Part A (Coloured pigmented) and Aralox-FL200 Part B (Clear) in its original container well before use.

Mechanically mix (by volume) 2 Parts of Aralox-FL200 Part A with 1 Part of Aralox-FL200 Part B hardener (2:1). Do not vary from this ratio. Avoid entrapping air during mixing.

Thinning

LM1 Thinner is used with Aralox-FL200.

Cleanup

LM1 Thinner may be used for general clean-up of equipment and hoses. To remove cured material from metal parts, soak in Swell. Keep all gun part A side components in soak containers on the left side of the workbench and all part B side components on the right side of the workbench. The use of plastic soak containers with clip-on lids and removable baskets makes the job easier. Replace the SWELL regularly as soon as it starts turning cloudy and dirty.

COMPATIBILITY

Primers	Aralox-FL170
Topcoats	Aralox-FL170 PU-75 Opalon-F45

TYPICAL SYSTEM

Substrate	Environment	Substrate Prep	Coat	System	DFT
Concrete	Flooring Light Duty	Diamond Grind	1 st Coat 2 nd Coat	Aralox-FL170 Thinned Aralox-FL200	4 - 6 m ² /L 200µm
Concrete	Flooring Heavy Duty	Diamond Grind	1 st Coat 2 nd Coat 3 rd Coat	Aralox-FL170 Thinned Aralox-FL200 Aralox-FL200	4 - 6 m ² /L 150µm 150µm

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STORAGE & HANDLING

Store in dry, shaded conditions away from sources of heat and ignition and in properly sealed containers. Protect from heat and frost.
A shelf life of 24 months minimum is typical if stored under ambient conditions at 25°C.

PACK SIZE

15L Kits

Aralox-FL200 Part A 10L in a 20L Pail
Aralox-FL200 Part B 5L in a 5L Can

30L Kits

Aralox-FL200 Part A 20L in a 20L Pail
Aralox-FL200 Part B 10L in a 10L Can

HEALTH & SAFETY

Aralox-FL200 is for professional use only.
This product should not be used without consulting the Safety Datasheet (SDS) as published on the Liquimix website first.
Observe all health and safety as well as environmental legislation.

DISCLAIMER

The information contained herein is offered without charge and is for use by technically qualified personnel at their own risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and no warranty of any kind is made with respect thereto.

LiquiMix Pty Ltd - ABN 32 062 887 585
24 Rosa Place, Richlands QLD 4077
Phone: 1300 123 085

Web: - www.liquimix.com
Sales Enquiries: - sales@liquimix.com
Account Enquiries: - accounts@liquimix.com