

# ALIPHILM AA



**FINDURO**  
by **VULK**

## DESCRIPTION

Aliphilm AA is a low viscosity aliphatic alcohol blend in an aqueous solution which reduces rapid water evaporation during the critical 'finishing' period of the concrete, particularly under adverse weather conditions such as high temperature, high wind and low humidity.

Applied to freshly laid surfaces, Aliphilm AA works to retain the moisture in the concrete which leads to improved workability and finishing of surfaces and reduces the risk of shrinkage cracking.

Aliphilm AA is a clear formulation of VULK's existing Aardcure AA and is specifically formulated to be suitable for light coloured and colour through decorative concrete mixes and improves results on exposed aggregate or trowel-finished projects.

### Applications for Aliphilm AA include:

- Rapid moisture evaporation retarder to reduce cracking and aid trowel finishing operations in adverse conditions.
- Reduce wash time of next day washing operations of exposed aggregate projects by applying after the application of EXPOSE XA surface retarder
- Apply as a curing aid to decorative washed aggregate or trowel finished surfaces after finishing to reduce short term moisture loss and reduce the risk of cracking.

Aliphilm AA can be used as a curing aid in situations where the use of an AS3799 compliant curing agent is undesirable due to discolouration or impediment to sealer application caused by curing compound application.

Additional effective shrinkage crack reduction and curing benefits can be achieved when Aardcure Catalyst is applied to full penetration after surface finishing or surface washing and can be applied without marking the surface. Aliphilm AA is then applied as the final treatment after the penetration of Aardcure Catalyst.

**Note:** Consideration should be taken as to the optimal method for curing to reduce issues with cracking. Refer to important further notes listed in this document.

## USES

- Freshly laid concrete, smooth or textured surfaces, indoor or outdoor.
- Coloured concrete or dry shakes
- Stamped concrete
- Roads, bridges and hardstands
- Suitable for wood float, hand trowel or machine finished surfaces

## FEATURES AND BENEFITS

- Reduces plastic shrinkage
- Will not affect adhesion of after trades
- Gives an improved finish to the concrete surface when trowelled or floated
- Has no effect on the cement hydration process
- Maintains a plastic and workable surface

## TYPICAL PROPERTIES

<b>Solids</b>	NA
<b>Appearance</b>	Milky white and clear on application
<b>Solubility in water</b>	Soluble
<b>Flash Point</b>	NA
<b>Boiling Point</b>	>100°C
<b>Density (20°C)</b>	1.08 g/cm <sup>3</sup>
<b>UN Number</b>	NA

## APPLICATION GUIDELINES

### Material Preparation

Thoroughly shake the undiluted Aliphilm AA prior to dilution.

Add water to the Aliphilm AA at a recommended dilution rate is 1 part Aliphilm AA to 9 parts water but higher concentrations can also be effective, up to 1:4 in extreme conditions and up to 1:3 when applied after Expose XA for next day washing of exposed aggregate.

### Application Method

Agitate the material until thoroughly mixed.

Assess the application area so that a fixed volume of mixed material can be applied over a fixed area to determine the correct application rate.

Diluted Aliphilm AA is applied after surface screeding but before surface finishing processes.

Application is recommended via low pressure spray unit. Spray at a rate of 1L/5m<sup>2</sup> to achieve consistent coverage in even coats.

### As a rapid moisture evaporation retarder

After application, finishing of the concrete can continue. The film formed by Aliphilm AA will reform during this process, depending on the amount of surface bleed water present. Continue trowel finishing after the AA film has begun to evaporate.

### As a curing aid for next day washed aggregate finishes:

After trowel finishing is complete apply EXPOSE XA surface retarder to full saturation. Allow the EXPOSE XA to penetrate the surface. Once the penetration is complete spray apply the diluted ALIPHILM AA to the surface at 1L/5m, which will further slow the hardening of the upper layer of the concrete and enable faster surface washing times the next day.

### As a curing aid for washed aggregate or trowel finished surfaces

Spray apply diluted Aliphilm AA at a rate of 1L/5m<sup>2</sup> as soon as the surface is trafficable by foot and will not be damaged by the application. Use for this purpose should be reserved for projects of critical aesthetic importance and will assist in short term moisture retention only. See further information regarding curing recommendations listed in this document.

Effective application temperatures are between 5°C and 40°C.

## IMPORTANT

DO NOT over apply Aliphilm AA as this can affect the water/cement ratio, causing the concrete surface to become weak or dusty.

In extreme wind or heat conditions it may be necessary to re-apply Aliphilm AA to the concrete surface.

Aliphilm AA IS NOT a curing compound. All concrete surfaces should be cured according to AS3600, using a curing compound that complies to AS3799 (90% minimum curing efficiency). Please contact VULK for further technical inquiries. The Aliphilm AA is a curing aid only and will retain moisture in the concrete only while the film is present. Aliphilm AA will evaporate and once this has occurred the concrete moisture will evaporate at a rate dependent on the atmospheric conditions.

VULK supply a range of effective curing agents and products to reduce cracking and increase durability. Please contact your sales representative to assist in choosing the best option for your project.

## CURING TIME

Aliphilm AA will evaporate as concrete finishing occurs and evaporation is dependant upon enviomental conditions.

## ESTIMATING DATA

20L of undiluted AA will cover yield up to 200L of mixed material. At a 1:9 mix ratio, theoretical coverage is 1000m<sup>2</sup>.

## CLEAN UP

Clean tools and equipment thoroughly with clean water before they dry.

## PACKAGING

20L plastic cube.

## SHELF LIFE

12 months in unopened, factory sealed container, stored safely at temperatures between 5°C-35°C.

## SAFETY PRECAUTIONS

Always wear adequate personal protection during use including gloves, eye protection, overalls and appropriate mask. Apply in adequate ventilation. Refer to Material Safety Data Sheet for further safety information.

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