

Lambert® Retarder H

Surface retarder for pavements, construction joints, and exposed aggregate concrete applications

Description

Lambert Retarder H top applied surface retarder is chloride free and based on specially selected retarders of cement hydration. Lambert Retarder H is supplied as a pink liquid.

Applied to the surface of fresh concrete, Lambert Retarder H temporarily halts the hydration and setting of the cement in the top surface. Controlled penetration allows the concrete to harden at normal rates. At a later stage, either the same day or the next depending on construction requirements and ambient conditions, the retarded surface can be brushed or washed away leaving aggregate at the surface exposed but fully bonded with the concrete.

Uses

Lambert Retarder H is a chemical retarder used as a simple, economical method of exposing freshly poured concrete flat work aggregates. Lambert Retarder H have been specially designed for the production of exposed aggregate finishes or producing a mechanical key to construction joints, stop ends or subsequent rendering applications.

Advantages

- ❖ Produces attractive textured exposed aggregate surfaces
- ❖ Easy to use
- ❖ Economical
- ❖ Consistent results
- ❖ Will not stain or colour the concrete

Packaging

Lambert Retarder H is available in 25 litre and 210 litre drum supply

Coverage

Lambert Retarder H: 3 to 5 m²/litre

Instructions for use

Selection of grade of product

Lambert Retarder H will generally be found suitable for a maximum aggregate size of above 15 mm and will typically produce a depth of reveal of approximately 10 mm. Confirmation of the most suitable grade for specific conditions is best made in trials before the main project.

Trial procedures

The production of any architectural finish requires practice to develop the level of skill required to obtain a high quality result. Trials and samples duplicating actual production conditions are essential in determining the effects of the various parameters and developing a standard procedure. Trials are best carried out by personnel who will be involved in the full project.

Once trials have produced a suitable procedure, this should be followed for the complete project and any variability that will influence the development of setting and stiffening of the concrete should be kept to a minimum.

Concrete placing

Normal precautions in the preparation of the substrate and placing of concrete should be followed. The surface of the concrete to be exposed should be leveled with a screed, float or trowel. It is important that the surface is not tamped or overworked as this will tend to drive aggregate down from the surface, leaving mainly sand and cement and reducing depth and uniformity of exposure. Do not over work the surface with a steel trowel as this may tend to seal the surface and reduce retarder penetration.

To enhance the appearance of the exposed concrete, additional aggregate may be sprinkled on the top surface and carefully worked in so that it is completely surrounded by cement paste. If used, this procedure should be developed through trials before the main project.

Application

Lambert Retarder H should be well mixed before use. Application should commence as soon as all surface water has disappeared from the concrete, but not before. Delay in application will affect the depth of reveal obtained.

Lambert Retarder H should be spray applied to the top surface of the concrete using standard low pressure spray equipment.

Areas adjacent to the job should be protected from over-spray, which may cause staining.

Cleaning All tools and equipment should be cleaned with water immediately after use. Do not store Lambert Retarder H in metal spray equipment for longer than 2-3 hours as this may reduce the effectiveness of the product.

Curing After application of Lambert Retarder H, cover the concrete with black plastic sheeting, this should be in contact with the concrete surface to ensure an even depth of etch.

Removal of Retarded Layer Removal of the retarded matrix may begin as soon as the concrete has hardened sufficiently to support a person's weight.

It will usually be found beneficial to remove the plastic sheeting first from a small area of the surface and to determine if the desired depth of reveal is obtained. If the depth appears to be too deep then plastic should be replaced and left for a short time before checking again.

When the desired depth is achieved, remove the plastic sheeting and hose the top surface with water. Use a stiff broom or brush to completely remove the retarded matrix and reveal the hardened concrete. High pressure water is more efficient and should be used if available. Surfaces treated with Lambert Retarder H must be scrubbed down with water the following morning.

Compatibility Lambert Retarder H is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and silica fume.

Limitations Lambert Retarder H is designed for used on the top surfaces of fresh concrete. It is not suitable for used on mould surfaces and will not have any etching effect if applied to hardened concrete.

Lambert Retarder H will not permanently prevent the hardening of the concrete surface.

Fire Lambert Retarder H is water based and non-flammable.

Cleaning and Disposal Spillages of Lambert Retarder H should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

Storage

Lambert Retarder H has a shelf life of 12 months from the date of manufacture and should be stored under cool and dry conditions in the original container.

Health and Safety

Lambert Retarder H is mildly acidic and should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn.

Ensure adequate ventilation is available when spray applying Lambert Retarder H. In enclosed spaces respiration equipment should be worn.

Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

Notes

The information, and, in particular, the recommendations relating to the application and end use of Lambert products, are given in good faith based on Lambert's knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respects of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request

Distributor:

AGENCIA COMERCIAL KIN CHEUNG
AVN. GOV. J. S. MARQUES NO. 253
R/C "AI" KIN HENG LONG PLAZA
MACAU
T : (853) 28424080
F : (853) 28424081
E : info@kincheung.com