

SPRAYED LIMPET VERMICULITE SLV – Internal – “LOW-GWP”

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1. DESCRIPTION

Sprayed Limpet Vermiculite (SLV) is a tough, hard, highly stable, passive fire protection coating applied to steel and concrete by spraying.

SLV consists of a factory produced blend of exfoliated vermiculite, cementitious binders with a Low Global Warming Potential at just 31% against traditional types of cement and additives supplied as a dry mix to which clean water is added on site. It does not rely on any form of expansion, foaming or chemical reaction to impart its fire protection properties. The product has a very good adhesion and is easy in maintenance.

SLV-Internal-“LOW-GWP” grade is a robust, economic light coating for internal use.

The product is asbestos free, does not contain gypsum and has a brighter grey colour.

2. APPLICATION

SLV-Internal-“LOW-GWP” is designed for installation by spray techniques. It should only be installed by trained applicators of an experienced specialist contractor operating in accordance with the Nestaan-Thermica SLV System Manual. Easy, quick and seamless application even on curved surfaces.

SLV-Internal-“LOW-GWP” can be applied to steel surfaces in constructions (columns, beams, ceilings) and to concrete (floor, beams, soffits, etc.).

Where thicknesses beyond 25mm are required, the material must be applied in two coats, mesh reinforcement is sometimes needed.

Steel :

The surface of the steel should be dry and free of dirt, oil, loose mill scale, flaking paint and loose rust. If required, existing painted surfaces should be treated with a coating of Limpet Primer.

Concrete :

The surface of the concrete should be dry and free of dirt and oil. No curing agents or release oil residue should remain behind on concrete before application of the fire protection SLV-Internal-“LOW-GWP”

Concrete surfaces will be protected from spalling when sprayed with SLV Internal-“LOW-GWP”.

Temperature limitation :

As cementitious vermiculite sprays can be damaged by frost for up to 24 hours after application, spraying should not take place at temperatures below 5°C or when such low temperatures are expected.

In case of temperatures exceeding 40 °C, spraying is not advisable either.

3. VOLUME WEIGHT

Nominal average dry Volume Weight: 350-400 kg/m³ (BS476)

4. THEORETICAL COVERAGE

Nominal theoretical coverage at 15mm thick : +/- 190 m²/ton (or +/- 2.86 m²/bag of 15 kg)

5. THERMAL CONDUCTIVITY

When tested in accordance with EN12667, at a mean temperature of 10°C, a thermal conductivity of 0,121W/m.K was obtained.

6. STANDARDS

All applications must be carried out in accordance with the current issue of the Nestaan-Thermica SLV Application Manual and should follow the guidance found in BS 8202: Part 1 1987, Code of practice for the selection and installation of sprayed mineral coatings.

7. FINISHING

When sprayed, SLV-Internal-“LOW-GWP” has an attractive textured surface, no further treatment is necessary for internal applications. Manual application is also possible for small repairs.

8. PACKAGING, STORAGE AND SHELF LIFE

SLV-Internal-“LOW-GWP” is supplied in white PE bags of 15 kilo. Standard 65 bags/ pallet. Heat Treated pallets with ISPM mark of 1,20 x 1 m. Pallets are wrapped with stretch foil

Storage : store inside in a dry place, pallets are not stackable (compression of material)

Shelf life : maximum 12 months

9. FIRE PERFORMANCE

SLV-Internal-“LOW-GWP” has been tested on loaded concrete slab for fire resistances up to 180 minutes in accordance with EN13381p3:2015.

SLV-Internal-“Low-GWP” has been tested on steel profile for a fire resistance up to 5 hours in accordance with EN13381p4:2013.

SLV-Internal-“LOW-GWP” has been tested on steel profile for a fire resistance up to 150 mins (2,5 hours) in accordance with UL263 and benefits from a permanent UL-certification for Internal application.

The thickness of fire protection material required for a given period of fire resistance is dependent upon the surface area of the steel member exposed to fire and its equivalent cross sectional area, that is, the Hp/A (A/V) value for the section.

For thickness tables, please refer to the specific fire testing standards and test reports.

Available fire tests according to : EN, UL.

10. TECHNICAL ADVICE

A technical advisory service is available to discuss any potential application of our products.

Please contact +32(0)69 77 83 20 Nestaan NV in Belgium .

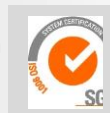
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