

# SPRAYED LIMPET VERMICULITE SLV Internal

## 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 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 grade is a robust, economic light coating for internal use.

The product is asbestos free, does not contain gypsum and has an off grey colour.

## 2. APPLICATION

SLV Internal 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 and quick and seamless application even on curved surfaces.

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

Where thicknesses beyond 30mm 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

Concrete surfaces will be protected from spalling when sprayed with SLV Internal

### 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 45 °C, spraying is not advisable either.

## 3. VOLUME WEIGHT

Nominal average dry Volume Weight: 350-400 kg/m<sup>3</sup> (BS476)

## 4. THEORETICAL COVERAGE

Nominal theoretical coverage at 15mm thick : +/- 190 m<sup>2</sup>/ton (or +/- 2.86 m<sup>2</sup>/bag of 15 kg)

## 5. THERMAL CONDUCTIVITY

When tested in accordance with BS 874, at a mean temperature of 10°C, a thermal conductivity of 0,09 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 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 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

As applied, SLV Internal is rated 'A1': "Non-combustible" to EN13501p1:2002 and complies with the performance requirements of "Class 0" as defined in UK Building Regulations, it does not contribute to smoke generation .

SLV Internal has been fully tested on structural steel beams and columns for up to 4 hours fire resistance in accordance with BS 476 Part 21:1987, up to 4 hours of fire resistance on concrete to E13381p3:2015 and up to 4 hours fire resistance on steel to EN13381p4:2013 in boxed-out configuration.

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 : ASTM, BS, EN.

## 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 .

### PRODUCER:

Nestaan NV  
Tel : +32.69.77.83.20

ZI Tournai Ouest II  
Fax : +32.69.22.95.27

Rue du Bois des Hospices 2  
[infonestaan@nhb.be](mailto:infonestaan@nhb.be)

7522 Blandain



Versie  
03.04.2024

Guarantee and liability: Nestaan NV guarantees that her products, within their shelf life, maintain their properties within the tolerances as indicated in the specification. Our liability will never exceed what is indicated within our general conditions of sale, which can be obtained upon request and which are indicated at the back side of our offers, order confirmations and invoices. By no means the seller is liable to any consequential damages whatsoever. The provided information is the result of our testing and experience and is of general nature. This information by no means implements any acceptance of liability. It is the responsibility of the user, by his own testing, to evaluate if the product is suitable for its intended application. The information and recommendations in this publication are, to the best of our knowledge, accurate at the date of publication. Nothing herein is to be construed as a warranty, whether expressed or implied. In all cases, it is the responsibility of users to determine the applicability of such information or the suitability of any products of their own particular purpose.