

SPRAYED LIMPET VERMICULITE SLV External

Brandowner & Distributed by



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 External Grade is a coating for external use, resistant to a variety of climatic and industrial conditions.

The product is asbestos free and off grey colour.

2. APPLICATION

SLV External 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 seem less application even on curved surfaces.

SLV External can be applied on construction elements, steel and concrete, in tunnels, on structures and vessels in oil, gas, power and petrochemical industries.

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, dust and oil. No curing agents or release oil residue should remain behind on concrete before application of the fire protection SLV External.

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

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.

3. DENSITY

Nominal average dry density: 720 kg/m³ + 10%
(ITB AT-15-5957/2011)

4. THEORETICAL COVERAGE

Nominal theoretical usage at 25mm thick : +/- 62 m²/ ton

5. THERMAL CONDUCTIVITY

When tested in accordance with BS874 , at a mean temperature of 10°C, a thermal conductivity of 0,15 W/mK was obtained

6. STANDARDS

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

SLV External has a determined R-value of 0.32 according to BS 6853: 1999 Annex B4.2 on the weighed summation of toxic fume index.

7. FINISHING

When sprayed, SLV External has an attractive textured surface.

Under very special conditions, for permanent external use, frequent wash down, a water repellent treatment and/or a protective paint coating can be required.

Manual application is also possible for small repairs.

8. PACKAGING, STOCKAGE AND SHELF LIFE

SLV External is supplied in white PE bags of 20 kilo.

63 bags/ pallet

Heat Treated pallets with ISPM mark of 1,20 x 1 m

Pallets are foiled 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 External is rated "Non-combustible" to BS 476 Part 4 and complies with the performance requirements of "Class 0" as defined in Building Regulations, it does not contribute to smoke generation.

SLV External has been fully tested on structural steel beams and columns for up to 4 hours fire resistance in accordance with BS 476 Part 21 and up to 3 hours on concrete according to the RWS Standard

The thickness of fire protection material required for a given period of fire resistance depends upon the surface area of the steel member exposed to fire and its equivalent cross sectional area, that is, the H_p/A 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, RWS, UL pending.

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

7522 Blandain



Versie
15.03.2016

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.