



**Nestaan, your partner  
in passive fire protection.**





# Nestaan is a manufacturer of passive fire protection.

Passive fire protection guarantees the integrity of a structure in case of fire for a specific amount of time. This time can be used to evacuate these premises and allows the rescue services to do their job.

This in addition to active fire protection, which merely aims at immediate personal action to extinguish a fire and of which fire detection systems, sprinklers and fire extinguishers are the most common examples.

Additionally to these properties, passive fire protection can realize in certain cases, that the structure might be re-used after a fire. This potentially can reduce damages in a considerable way for both owners and fire insurances.

## Sprayed Limpet Mineral Wool

Beside our SLV, we can also offer a product based upon mineral wool, SLMW Sprayed Limpet Mineral Wool. This product can be applied in places where not only passive fire protection is of importance but also thermal and acoustic properties are required.

Nestaan can provide both building owners, engineers as well as application companies with a very wide reaching program of fire tests. These tests have been issued by world renowned international fire laboratories like Efectis, Warrington, ITB, HS-L, Tüv-Süd-PSB and many others.

Every application should be made in accordance with the prescriptions and specifications in our test reports and by specialised and licensed application companies, specifically selected by Nestaan for such purposes. Our application manual should be strictly followed.

## Sprayed Limpet Vermiculite

SLV means Sprayed Limpet Vermiculite. This product is manufactured in an Internal and an External quality, which make them suitable for their specific application. It is a mixture of cement, vermiculite and other additives. SLV is a very durable alternative to protect a structure passively against the effects of fire.



All our products are manufactured under the strict supervision and control of our Iso9001:2008 certification, to obtain the comforting guarantee of full traceability from raw material till end product in combination with our entire range of quality products.



# SLV INTERNAL

SLV INTERNAL IS A FACTORY PRE-MIXED SPRAYABLE MORTAR FOR APPLICATION AS A PASSIVE FIRE PROTECTION INSIDE BUILDINGS.

IT'S A LIGHT-WEIGHT MIXTURE OF VERMICULITE, CEMENT AND VARIOUS ADDITIVES. SLV INTERNAL CAN EASILY BE APPLIED AND IS A DURABLE ALTERNATIVE TO PASSIVELY PROTECT A BUILDING STRUCTURE AGAINST THE EFFECTS OF A FIRE.

## Processing

SLV Internal should be applied with specific spray machines.

Afterwards a decorative top coating can be applied.

SLV Internal should be processed according to the prescriptions in the SLV Manual and between +5° and +45° Centigrade.

## Application range

SLV Internal is being used in applications like hospitals, shopping malls, office buildings and other public buildings. It is mainly used on concrete and steel, with and without either primer or topcoating.

Any substrate should be clean, preferably dry and dust as well as oil and grease free before application.

## Packaging and storage

Standard packaging in one way, white PE-bags of 15 kg. Number of bags per pallet is determined according to the total quantity and means of transport.

**STANDARD PACKAGING:** 65 bags per pallet (always fumigated pallets) Storage in a perfectly dry space, away from the floor.

**SHELF LIFE:** 12 months after production date.

### Technical properties

FIRE BEHAVIOUR	Incombustible - Class A1
FIRE RESISTANCE	RF 30 up to 240 min.
VOLUME WEIGHT	350-400 kg / m <sup>3</sup> (BS476)
THICKNESS RANGE	up to 76 mm
THERMAL CONDUCTIVITY	0.09 W/m.K
SMOKE EMISSION	R:0.32. (BS6853:1999 Ann Bz)
COLOUR	Greyish
FINISH	Slightly structured surface - Asbestos free.

# SLV EXTERNAL

SLV EXTERNAL IS A FACTORY PRE-MIXED SPRAYABLE MORTAR FOR APPLICATION AS A PASSIVE FIRE PROTECTION.

IT IS A MIXTURE BASED ON VERMICULITE, CEMENT AND VARIOUS ADDITIVES. SLV EXTERNAL CAN EASILY BE APPLIED AND IS A DURABLE ALTERNATIVE TO PASSIVELY PROTECT A BUILDING STRUCTURE AGAINST THE EFFECTS OF A FIRE.

## Processing

SLV External should be applied with specific spray machines.

Afterwards a decorative top coating can be applied.

SLV External should be processed according to the prescriptions in the SLV Manual and between +5° and +45° Centigrade

## Application range

SLV External can be found frequently in the Petrochemical and Hydrocarbon Industry, in tunnels and constructions which are exposed to the weather (Columns and beams). It is mainly used on concrete and steel, with and without either primer or topcoating.

Any substrate should be clean, preferably dry and dust as well as oil and grease free before application.

## Packaging and storage

Standard packaging in one way, white PE-bags of 20 kg. Number of bags per pallet is determined according to the total quantity and means of transport.

**STANDARD PACKAGING:** 63 bags per pallet (always fumigated pallets) Storage in a perfectly dry space, away from the floor.

**SHELF LIFE:** 12 months after production date.

### Technical properties

FIRE BEHAVIOUR	Incombustible - Class A1
FIRE RESISTANCE	RF 30 up to 360 min.
VOLUME WEIGHT	720 kg / m <sup>3</sup> + 10% (ITB AT-15-5957/2011)
THICKNESS RANGE	up to 74 mm
THERMAL CONDUCTIVITY	0.15 W/m.K
SMOKE	R:0.32. (BS6853:1999 Ann Bz)
COLOUR	Greyish
FINISH	Slightly structured surface - Asbestos free.





# SLMW

SLMW, SPRAYED LIMPET MINERAL WOOL, IS A FACTORY PRE-MIXED SPRAYABLE MASS, CONSISTING OF A MIXTURE OF MINERAL WOOL, SELECTED AN-ORGANIC FILLERS AND BINDERS.

THE PRODUCTS SHOULD BE USED AS A PASSIVE FIRE PROTECTION INSIDE BUILDINGS. SLMW IS MANUFACTURED IN TWO QUALITIES: THE GP-GRADE (GENERAL PURPOSE) AND THE HT-GRADE (HIGH TEMPERATURE).

## Processing

SLMW should be applied with specific spray machines. Afterwards a decorative top coating can be applied. SLMW should be processed according to the prescriptions in the SLMW - Manual and between +5° and 45° Centigrade.

## Application range

SLMW-GP can be used on steel, concrete and timber and should be used in places where both fire protecting as well as thermal and acoustic properties are required. Such applications can be for instance parking garages, theaters and cinemas.

SLMW-HT is generally used in environments where continuously very warm surfaces can be encountered. Such surfaces can reach temperatures as high as 650°C like in the case of steam turbines, or similar industrial installations. In each application, the substrate should be perfectly clean, preferably dry and dust as well as grease-free.

## Packaging and storage

Standard packaging in white one way PE bags of 25 kg. 24 bags per pallet. Storage in a perfectly dry space off the floor.

**SHELF LIFE:**  
12 months after production date.

### Technical properties

FIRE BEHAVIOUR	Incombustible - Class A1
FIRE RESISTANCE	RF 30 up to 180 min.
VOLUME WEIGHT	200 - 300 kg / m <sup>3</sup>
THICKNESS RANGE	19 up to 80 mm
THERMAL CONDUCTIVITY	0,040 W/m.K
COLOUR	Whiteish
FINISH	Waffled - Absbestos free.

# LIMPET BD6

LIMPET BD-6 IS A FACTORY MIXED, SELF-SETTING CEMENT BASED FINISHING COATING, WHICH CAN BE USED AS A PROTECTIVE AND DURABLE COATING OVER FOR INSTANCE: CALCIUM SILICATE AND ALL TYPES OF THERMAL INSULATIONS BASED UPON MINERAL WOOL. SLMW IS A GOOD EXAMPLE OF SUCH TYPE OF SUBSTRATE.

## Processing

Limpet BD6 is supplied in dry powder form and can easily be mixed with clean water on site. It offers an extremely durable top finish, which is equally suitable for receiving paint based decorative coatings. Limpet BD6 can be applied either by hand or by spray machines.

## Application range

Limpet BD6 can be used for Internal, External and Marine applications. However Limpet BD6 is neither water- nor damp-proof and in case of external applications, it should be finished with a waterproofing coating.

## Packaging and storage

Standard packaging in one way PE bags of 25 kg. 40 bags per pallet. We always pack on fumigated pallets. Storage in a perfectly dry space off floor.

**SHELF LIFE:**  
12 months after production date.

### Technical properties

FIRE BEHAVIOUR	Incombustible - Class A1
VOLUME WEIGHT	1200 kg / m <sup>3</sup>
THICKNESS RANGE	3 up to 12 mm
THERMAL CONDUCTIVITY	0,2 W/m.K
APPLICATION LIMIT	175 °C
COLOUR	Greyish
FINISH	Smooth - Asbestos free.





# ACCESSORIES



## Primer and topcoat

Our Limpet Primer is a coating which can improve adhesion of both SLV and SLMW on difficult substrates. In certain applications this product could be necessary before the application of passive fire protection.

Topcoat is a washable and decorative finishing coat in off-white, for various applications in buildings and other locations. The product also efficiently protects thermal insulation.

## Mesh and Pins



In certain applications it is necessary to apply an armouring compound within the fire protection by form of a mesh. Such mesh, which can be fixed before or during the application of SLV or SLMW, guarantees an optimal adhesion in complex places, where mechanical load on the fire protection is being effectuated.

### WE DO SUPPLY TWO DIFFERENT FIXING SYSTEMS FOR THE VARIOUS TYPE OF MESH THAT WE CAN OFFER:

1. Fixing pins, which can either be shotfired (Hilti system) or simply welded in place.
2. Fixing pins, which are glued in place by a specially certified High Temperature Adhesive. This last system is equally fully tested and in conformity with the requirements of En-1361-1 of 2001.



## Limpet Pyromastic

This is a fire resistant, 1 component mastic on acrylic basis. It can be painted, is very elastic and offers a very good adhesion. Limpet Pyromastic is used for joints, crevices and openings up to 25mm. The Limpet Pyromastic is used for connection joints in fire-retardant constructions inside buildings, between window frames and wall, between wall and ceiling, around partitioning panels, pipe- and cable entries.



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