Up to five European Technical Approvals for ATLAS insulation systems

BBA CERTIFICATE 13/5018

NSAI

CS II PRODUCT CONFORMS WITH THE EUROPEAN STANDARD

ATLAS CERMIT SN-MAL

thin-coat mineral render for further painting

- render for further painting
- reinforced with polymers
- durable and resistant to micro-cracking
- water vapour permeable
- spotted texture – two aggregate thicknesses

EASY IN USE · FOR WALLS · FROST- AND WATERPROOF · INDOORS AND OUTDOORS

MYCO PROTECT · APPLY WITH FLOAT · SPOTTED FINISH

Use

Render for further painting – must be coated with façade paint.
Economical version of CERMIT SN render – when shade from wide ATLAS range of colours and further coating with façade paints is required.
Decorative and protective top finish of façades or internal walls.
Light and durable rendering coat – perfect top finish of thermal insulation systems.
Recommended for façades, where high water vapour permeability should be kept – porous structure of set render ensures free transfer of water vapour – therefore forms perfect finishing coat of external walls of pools, kitchens, drying houses, laundries, cold storage plants, gym halls, baths, old buildings, etc.
Recommended for buildings exposed to algae and fungi – situated close to clusters of greenery and water reservoirs; high pH (~12) hinders development of biological corrosion occurring in the form of brownish – green deposit and resulting in the surface damage.

Types of rendered buildings – single- and multi – family, public access buildings.
Types of substrates – concrete, traditional plasters on walls made of bricks, ceramic, cellular or silicate blocks or hollow blocks, plasterboards (indoors), thermal insulation systems with polystyrene, XPS and mineral wool.

Properties

Resistant to micro-cracking – contains special microfibres strengthening its structure.
Additional melioration of strength parametres in time - owing to positive influence of the natural process of mineral renders carbonation, which limits their absorbability, hardens structure and improves resistance to chemical aggression.
High strength and hardness – owing to polymer-reinforced mix of binders – white, fine, high grade cement type and lime as well as specially selected quartz aggregate.
MYCO PROTECT – contents lime, which naturally protects the render against biological corrosion, i.e. development of fungi and algae on the render surface, for long time.
Does not attract dust, dirt, pollen present in air.
Inflammable – in combination with mineral wool forms inflammable thermal insulation system for walls.
Can be applied with special rendering units – improved yield and pace of application, particularly upon curved and irregular surfaces. **Note. Renders CERMIT SN-MAL 15 can be applied with machines only. The machine-applied render forms texture differing from the one formed manually.**

Technical data

ATLAS CERMIT SN-MAL is manufactured as a dry mix of white cement, lime, quartz and lime aggregate.

Mixing ratio for CERMIT SN-MAL 15 (water/dry mix)	5.00 ÷ 6.25 l/25 kg
Mixing ratio for CERMIT SN-MAL 25 (water/dry mix)	4.50 ÷ 5.50 l/25 kg
Mass preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time	approx. 10 minutes
Pot life	1.5 hour
Open time	approx. 20 minutes

Texture:	– spotted
Aggregate grain size:	– 1.5 mm – CERMIT SN-MAL 15 – 2.5 mm – CERMIT SN-MAL 25

Technical requirements

Render conforms to PN-EN 998-1 standard. EC Declarations of Performance No. 053/CPR.

CE 0767	PN-EN 998-1:2012 (EN 998-1:2010)
Factory made single-coat (OC) rendering mortar	for outdoor use, on masonry walls, ceilings, posts and partition walls
Reaction to fire - class	A2 s1 d0
Water absorption - category	W1
Bonding after required freeze-thaw cycles	≥ 0.3 N/mm² - FP:B
Water vapour permeability coefficient μ	15/35 (EN 1745:2002, table A.12)
Thermal conductivity coefficient (average tabular value P=50%)	0.83 W/mk ($\lambda_{10, dry}$) (EN 1745:2002, table A.12)
Water permeability tested after required freeze-thaw cycles	≤ 1 ml/cm² after 48 h
Gross dry density	≤ 1800 kg/m³
Durability. Bonding after required freeze-thaw cycles.	≥ 0.3 N/mm² - FP:B
Durability. Water permeability after required freeze-thaw cycles	≤ 1 ml/cm² after 48 h
Release/content of hazardous substances	See: Safety Data Sheet

The render is listed in the following approvals for thermal insulation systems:

System name	Technical Approval No.	Certificate No.
ATLAS	ETA 06/0081	EC 1488-CPD-0021
ATLAS XPS	ETA 07/0316	EC 1488-CPD-0075
ATLAS ROKER	ETA 06/0173	EC 1488-CPD-0036
ATLAS RENOTER	AT-15-8477/2010	FPC-ITB-0456/Z
ATLAS ETICS	AT-15-9090/2014	FPC-ITB-0562/Z
ATLAS ROKER	AT-15-2930/2012	FPC-ITB-0436/Z
ATLAS ROKER G	AT-15-7314/2011	FPC-ITB-0222/Z

The product has been given the National Standard Authority of Ireland (NSAI) Certificate no. 10/0347 and the British Board of Agrément (BBA) Certificate no. 13/5018.
The product has been given the Radiation Hygiene Certificate.

Rendering

Substrate preparation
The substrate should be:
- **stable** – sufficiently rigid and sufficiently long stabilized. The assumed stabilization time for substrates is respectively:
  - new cement plasters made of ATLAS mortars - min. 1 week for each 1 cm of thickness,
  - concrete walls – min. 28 days,
- **dry,**
- **even** – irregularities and gaps should be filled with, e. g. ATLAS ZW 50, ATLAS ZW 330, ATLAS PLASTERING MIX or adhesive mortars used for installation of base coats of thermal insulation systems; prime the surface with ATLAS UNI-GRUNT emulsion before repairs,
- **clean** – free from layers which would impair the render bonding, especially dust, dirt, lime, oil, grease, wax, residues of oil and emulsion paints; substrates infected by biological corrosion must be cleaned with ATLAS MYKOS agent,
- **primed** - with ATLAS CERPLAST priming mass.

Rendering mass preparation
Pour the material from the bag into a bucket and mix dry – aggregate segregation can occur in transportation. Next, pour the mix into a container with suitable amount of water (see Technical Data for ratio) and mix manually or mechanically until homogenous. Leave the mass to rest for 10 minutes and remix. The mass should be used up within approx. 1.5 hour. During application, mix the mass on regular basis in order to keep homogenous consistency.
When using a rendering unit the render should be mixed in accordance to the unit manufacturer's guidelines. The level of mix water should be set so the render consistency provides appropriate render texture.

Mass application
The mass can be applied manually or mechanically. Manual application consists in applying the rendering mass with a smooth stainless steel float, with coat of thickness equal to the aggregate grain size. Collect excessive material, put it back in the bucket and obligatorily remix. Machine application should be carried out with appropriate rendering units.

Texture forming
Freshly applied mass requires texture forming with a plastic float. The spotted effect is formed by floating the rendering coat with circular moves. Machine-applied renders are not textured – they form spotted texture differing from the one formed manually.

Finishing works
The render can be coated with any façade paints (e.g. silicate ATLAS ARKOL S, ATLAS SALTA S, silicone ATLAS SALTA, ATLAS FASTEL-NOVA, ATLAS SALTA N, acrylic ATLAS SALTA E, ATLAS ARKOL E). Painting is possible after 2 ÷ 6 weeks since the completion of render application (depending on type and colour of paint). Painting with ATLAS silicate paints ATLAS ARKOL S and ATLAS SALTA S or ATLAS silicone paints ATLAS SALTA and ATLAS FASTEL NOVA can start just when the render dries, not earlier, however, than after 48 hours (silicate paint) or 5 days (FASTEL NOVA and SALTA).

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Consumption

CERMIT SN-MAL 15 - approx. 2.5 kg/1 m^2.
CERMIT SN-MAL 25 - approx. 3.5-4.0 kg/1 m^2.

Important additional information

- The open time (between application and texture forming) depends on substrate absorbability, ambient temperature and render consistency. The maximum surface possible to render in a single technological cycle (application and floating; for particular substrate type and weather conditions) should be established experimentally.
- Apply the render with the "wet on wet method", prevent the textured coat from drying before application of the subsequent coat. Otherwise the seams will be visible. Technological breaks have to be planned in advance, e.g. in corners and angles of a building, under rainwater pipes, on lines of contact of two colours, etc.
- Protect the rendered surface both during work and render setting against direct sunlight, wind and precipitation.
- The setting time depends on substrate type, temperature and relative air humidity, and can vary from 12 up to 48 hours. The substrate and ambient temperature during work and render setting must be between +5°C and +25°C.
- Tools must be cleaned with clean water directly after use. Difficult to remove residues of the set render can be removed with ATLAS SZOP agent.
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.
- The render must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - ≤ 0.0002%.

Packaging

Paper bags: 25 kg
Pallet: 1,050 kg in 25 kg bags

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.
At the time of publication of this product data sheet all previous ones become void.
Date of update: 2015-05-07