

S&P ARMO-mur®

Natural hydraulic lime rendering and plastering mortar



A Simpson Strong-Tie® Company

The information in this technical data sheet is valid for the S&P range of products, systems and solutions.
Please note that the information in your country may vary. Visit sp-reinforcement.eu to find your local branch.

DESCRIPTION

S&P ARMO-mur® is a thixotropic, shrinkage controlled natural hydraulic lime (NHL) rendering and plastering mortar for interior and exterior application. The formulation, which is enhanced with natural pozzolan and organic additives, is specially designed for use with the S&P ARMO-mesh® grids and is universally suitable for machine or manual application.

GENERAL FEATURES

WHERE TO USE

- Repair and reinforcement of existing buildings in combination with S&P ARMO-mesh®
- Rehabilitation and strengthening of historical buildings
- Renovation of facades, masonry and brickworks
- Universal use as rendering and plastering mortar

PERFORMANCE FEATURES

- Suitable for interiors and exterior walls
- Compatible with historical buildings and masonry/brickworks
- Easy application, even with significant thicknesses
- High breathability, high plasticity and excellent adhesion
- High thixotropy
- Manual or machine application possible

PRODUCT DATA

Designation

S&P ARMO-mur®

Delivery form

25 kg bags

40 x 25 kg bags per pallet

Storage

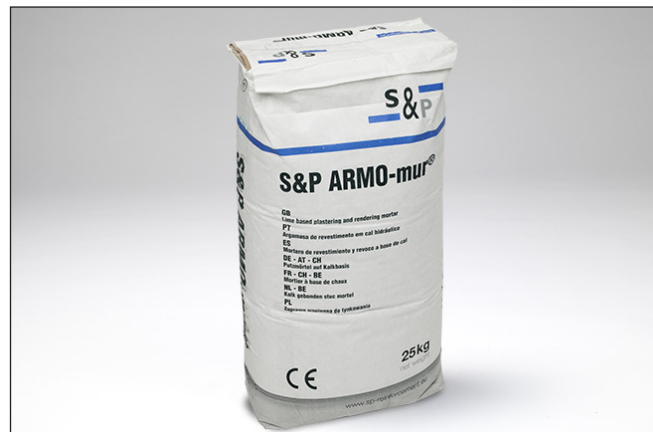
Store in original packaging and in a cool, dry and covered area without direct sunlight.

Shelf life

Use within 12 months after manufacture

CE-marking

S&P ARMO-mur® conforms to EN 998-1:2016



Ref: ARMO-murNew.TDS.EU-EN.V1

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TECHNICAL PROPERTIES

| Properties | Test method | Unit | Value |
|--|-------------|--------------------|--------------------------|
| Fresh mortar density | EN 1015-6 | kg/dm ³ | 1.85 |
| Maximum aggregate size | EN 1015-1 | mm | 2 |
| Water dosage | - | % | 18 |
| Application temperature | - | °C | +5 to +30 |
| Pot life (at 20 °C) | EN 1015-9 | Minutes | 50 |
| Compressive strength | EN 1015-11 | N/mm ² | > 2.5 |
| Flexural strength | EN 1015-11 | N/mm ² | > 0.75 |
| Adhesion | EN 1015-12 | N/mm ² | > 0.25 |
| Capillary water absorption | EN 1015-18 | Class | W _c 1 |
| Minimum layer thickness | - | mm | 10 |
| Maximum layer thickness | - | mm | 20 |
| Maximum application thickness (2-3 layers) | - | mm | 40 |
| Classification | EN 998-1 | | GP CSII W _c 1 |
| Water vapour permeability | EN 1015-19 | μ | ≤ 15 |
| Thermal conductivity | EN 1745 | W/m*K | 0.89 |
| Reaction to fire | EN 13501 | Euroclass | A1 |

PREPARATION

Substrate preparation

The substrate should be prepared by sandblasting or by hydro-mechanical means to achieve sufficient roughness. The substrate must be clean, cohesive, free of dust and contaminants such as oil or grease. The surface should be wetted at least 24 hours before the application of the mortar, so that the pores are saturated. Remaining water should be removed with a sponge, vacuum or compressed air.

Mixing

Pour 4.5 - 4.75 litres of water into a clean bucket, depending on the desired consistency. Slowly add the contents of the 25 kg bag, mixing at a constant speed with a mechanical mixer, until a homogeneous, lump-free mixture is obtained. Allow the mixture to rest for 5 minutes before application. Do not add more water if the mixture starts to lose consistency.

APPLICATION

The ambient and substrate temperature must be between + 5 °C and + 30 °C, taking care to maintain these conditions for 24 hours after application. If a bonding bridge is used, it must be fresh (sticky) to the touch at the time of application of the mortar. Otherwise, a new layer of bonding agent must be applied before the mortar is applied. S&P ARMO-mur® can be applied with a wet mortar spraying machine or manually with a trowel. The thickness of the applied material must be uniform. An initial coat can be applied to level the surface, if necessary.

The S&P ARMO-mesh® is applied on top of the fresh first layer or levelling layer.

A second layer of S&P ARMO-mur® is applied on top of the previous layer, as soon as it begins to set and adhesion to the substrate has been established.

S&P ARMO-mur® does not require special care during curing if applied on a dense substrate.

If the substrate is porous, it is recommended to protect S&P ARMO-mur® with a plastic or wetted geotextile to prevent excessive evaporation during curing. This measure is also highly recommended in situations of heat, very dry conditions, strong winds, etc.

When the product is set but not fully hardened, the final finish can be applied using appropriate tools for the desired surface texture.

CLEANING

Tools and application equipment must be cleaned with water immediately after use. If the product hardens, it can only be removed by mechanical means.

TESTING

Please contact us if you require any information regarding tests that have been conducted. Test reports may be available.

HEALTH & SAFETY

Follow the applicable general regulations for occupational safety and observe the hazard information and safety notes in the material safety data sheets. Safety data sheets are available free of charge from S&P. S&P's range of products are for industrial use. They must be installed by specialised personnel and competent professionals with adequate training. The installation instructions must be followed and can be found in S&P application manuals and several "Guideline" documents / existing technical notes.

The information contained in this Technical Data Sheet ("TDS"), and, in particular, the recommendations relating to the application and end-use of our range of products, systems, and solutions, are given in good faith to ensure the normal intended use or the normal suitability for use and correspond to the best of our knowledge and experience when our range of products, systems, and solutions are properly stored, handled, and applied under normal conditions. Please note that the information in your country may vary.

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This warranty disclaimer includes all implied warranties, statutory or otherwise, including the warranty of merchantability and of fitness for a particular purpose. The purchaser and/or user should perform its own tests to determine the suitability and fitness of our range of products, systems, and solutions for the particular purpose desired in any given situation.

All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product, concerned copies of which will be supplied on request or are available on our website www.sp-reinforcement.eu.

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