

## PLYSET HARD WALL COAT

### ■ Description

A ready-mix plaster that can be machine-sprayed, with extended setting and working times and enhanced thermal and acoustic insulation properties.

### ■ Application area

-Easily applied to surfaces such as brick, breeze block, aerated concrete, concrete and exposed concrete.

### ■ Application properties

- Adjustability time: max. 60 minutes
- Sponge-floating time: 90 – 120 minutes
- Steel trowel use: 120 – 150 minutes
- Application thickness: on ceilings min. 8 mm, max. 10mm, on other surfaces 10-20 mm (single coat)
- Setting time: min. 50 minutes
- Is a non-combustible building material.
- Does not produce bacteria or fungi.

### ■ Surface preparation

- Surfaces to be treated must be cleaned of dust, dirt, oil and other residues that may impair adhesion.
- If there are defects on the surface, they are repaired with repair mortar.
- The surface must be cured and sound.
- Metal surfaces must be protected against rust before application.
- Before application, aluminum guide rails must be placed vertically on the wall.
- On exposed concrete ceilings and walls, an adhesion-promoting primer that creates a roughened texture must be used.

### ■ Application conditions

- Ambient temperature between +5 °C and +35°
- Must not be applied on frozen or thawing surfaces, or on surfaces at risk of frost within 24 hours.
- Must not be applied under direct sunlight, strong wind or on hot surfaces.
- Completed surfaces **absolutely water** must not be brought into contact with.

### ■ Warnings and Recommendations

- The water/plaster ratio must be observed. Otherwise, an incorrect ratio may cause spalling, cracking and strength loss.

-Application must not be carried out in very hot, dry or windy environments. Applications in extremely hot conditions may result in spalling, cracking and strength loss.

-Product storage conditions must be observed. Products must not be kept in damp or very hot environments.

-Must not be used if hardening (lump formation) is observed inside the bag.

-Since the product contains various chemical additives and gypsum, the dust must not be inhaled. Avoid contact with skin and eyes. In case of contact, rinse thoroughly with water. Use protective equipment such as masks and gloves during work.

### ■ Application tools

Hand mixer, plastering trowel, leveling rule, steel trowel, aluminum guide rails

### ■ Application

-The cleanliness of the water and tools used must be ensured.

-The mixing water must not be salty, acidic or oily. Water temperature should be between 17 and 23°C.

-The mortar must be prepared at a ratio of 4.4-4.6 liters of water to 10 kg of PLYSET HARD WALL COAT.

-Before application, aluminum guide rails are placed on the surface to determine the plaster thickness.

-The application surface must, immediately before application, **absolutely be moistened**.

- PLYSET HARD WALL COAT is sprayed onto the application surface **horizontal** in strips, evenly and uniformly so that no gaps are left on the application surface

-Single-coat application thickness should be min. 8 mm and max. 10 mm on ceilings, and 10-20 mm on other surfaces. If a second coat is required, it must be applied before the first coat sets. No more than one coat should be applied on ceilings and no more than two coats on other surfaces.

-Leveling is carried out after 5-10 minutes.

-Once the plaster no longer moves under finger pressure, smoothing with a trowel is carried out.

-About 30 minutes after smoothing, the surface is lightly moistened and sponge-floated.

-Once the plaster surface has sufficient hardness, smooth it with a steel trowel.

-After approximately 120 minutes, polish with a steel trowel.

-Suitable plaster mesh must be used at junctions between different materials.

-Newly plastered surfaces must not be dried by lighting heaters or stoves nearby. The correct drying method is to ventilate the area so that the plaster dries evenly all over.

-The plaster surface must be protected from wind to prevent rapid drying.

#### ▪ **Consumption**

9,5-10 kg/m<sup>2</sup> (per 10 mm thickness)

#### • **Performance Information**

-Flexural strength:  $\geq 1 \text{ N/mm}^2$

-Compressive strength:  $\geq 2 \text{ N/mm}^2$

-Adhesion strength:  $0.1 \text{ N/mm}^2$

-Calcium sulfate content:  $\geq 50\%$

-Initial setting time:  $\geq 50$  minutes

-Airborne sound insulation: NPD

-Thermal resistance:  $\leq 0.34 \text{ W(m/K)}$

-Reaction to fire: Class A1

-Dry surface hardness:  $\geq 40 \text{ SHORE D}$

-Temperature resistance:  $-30^{\circ}\text{C}$  and  $+60^{\circ}$

-Note: Application properties values were obtained from laboratory tests ( $23 \pm 2^{\circ}\text{C}$  and  $50\% \pm 5$  humidity, with no air movement) and may vary under different environmental conditions. Performance information values were measured under the conditions specified in the relevant product standard and may vary under different conditions.

#### • **Reference Standards**

-EN 13279-1//B4/50/2

#### • **Packaging**

-25-30-35 kg polypropylene-laminated bag

#### ▪ **Physical state**

-White powder

#### • **Storage Conditions**

-Keep in a dry environment, with no more than 18 bags stacked. Bags must be stored off the ground and protected from moisture. Under these conditions, PLYSET HARD WALL COAT must be used within 12 months from the date of production. Improper storage conditions or exceeding the shelf life may impair the product properties.