



PRODUCT DESCRIPTION:

Port Land is a ready-made interior wall insulation plaster containing cement, expanded perlite and inorganic fillers, reinforced with additives that do not harm health and the environment in accordance with European norm directives, ISO and TSE conditions, providing 40-50% energy saving with SOUND-HEAT and FIRE insulation conditions.

USAGE AREAS:

It is used directly on the interior facades of buildings, columns and beams, rough and fine plaster, brick, and pumice. Primer should be used on exposed concrete, gas concrete, Gypsum Board, EPS, XPS and painted surfaces.

ROOF/TERRACE COVERING:

It can be used as a minimum 5 cm topcoat on the concrete floor in the closed roof floors of all kinds of buildings. Since it is compatible with the building floor, it does not require a mezzanine application before the application. As a result of the application, it provides a minimum of 40-50% energy saving due to its thermal insulation feature, and 55 db sound insulation with its sound insulation feature.

FEATURES:

1. The thermal conductivity performance is T1 class. It provides 40-50% savings in heating and cooling costs. It provides a warm environment in the winter and cool in the summer inside the buildings.
2. The A1 class is a non-combustible material. It prevents the carrier systems of the buildings from being damaged in the fire. It is the fire insurance of the buildings. It does not produce suffocating and poisonous gases during fire.
3. Creates healthy environments It has breathing and moisture balancing feature that prevents mold and fungus formation.
4. It has no carcinogenic effect. It does not contain substances harmful to human health or the environment.
5. Four times lighter than traditional plaster. The liquid load of the building is reduced, that contribute to earthquake safety.
6. It has a very long life, Since it is cement based.
7. It has sound absorbing feature. It has 55 db sound insulation value in 5 cm thickness in total. Eliminates reverberation and ringing.
8. Can be applied by machine and hand.
9. Easy to prepare and apply. Saves labor and time.
10. Between 25% and 40% more economical.
11. In one process, both coarse and fine plaster, as well as heat, fire and sound insulation are made.
12. Unlike mortar that is consisting of a mixture of sand, cement, and lime is not required. It eliminates the unnecessary cost.
13. Despite the limited life of other thermal insulations, WERNER PLASTER'S LIFE IS LIKE THE LIFE OF THE BUILDING.

APPLICATION AND SURFACE PREPARATION:

Surfaces must be free of dust, oil and loose parts. If necessary, it should be cleaned with water a day beforehand. Absorbent surfaces should be watered the day before. Very absorbent surfaces may cause harmless hairline cracks as they will absorb the water of the plaster. Large gaps and joints should be repaired with conventional plaster or WERNER plaster at least one day in advance. On painted surfaces, 4-5 notches are scored per 10 cm². Swelled paint and hollow plasters are scraped from the surface. Painted surfaces must be primed.

MANUAL APPLY:

15 liters of water for a bag of plaster material are poured into a plastic container, preferably large enough to mix at least one bag of WERNER plaster easily. It is mixed for 3-4 minutes until it becomes homogeneous with a low speed electric mixer. The spirals (vanes) at the end of the mixer should not be in the form of wires, but should be wide. The amount of water can be increased or decreased according to the desired consistency. When the plaster is applied to the wall surface with a thickness of 2-3 cm, it should have a consistency that will not flow and sag. The prepared plaster should be used within two hours.

The prepared material is first fed to the floor with a plaster trowel, an adhesion surface is created. Joint gaps are filled. Before the surface dries, the gaps between the anodes are filled. Depending on the consistency, 3 cm thick plaster can be applied at once. Immediately after the gaps are filled, correction is made with an aluminum gauge. Sword gauge is used in the gauging process. Or, by holding the screed inclined, screeding is done by pulling it from bottom to top. If the exposed concrete, Gypsum Board, EPS, XPS, aerated concrete surfaces are oily or smooth, spread plaster or adherence primers should be applied. In manual application, a worker can apply between 80-100 m² during 8 hours of work.

MACHINE APPLY

First of all, large joints and holes on the surface should be filled and repaired. After the water adjustment of the machine is made, the material should be as thick as possible. When the main gaps are filled, the mastering process is started immediately before the surface dries. Screeding is done so that its pointed corner touches the plaster and by pulling it from the bottom up. With one machine, plaster application can be made between 1000-1400 m² during 8 hours of work.

INTERIOR FINISH APPLICATION (WALL-CEILING)

At least one day after the plaster application by hand or machine on the interior wall and ceiling, the finishing-polishing process is started. For interior wall (20kg) WERNER SATIN is mixed with 6-7 liters of water in a plastic container and glaze putty is prepared. The prepared putty is applied to the surface between 0.2-0.5 cm with a long-nosed polishing trowel so that a smooth surface is obtained. If necessary, the surface is made ready for painting by sanding the trowel marks.

APPLICATION CONDITIONS

Application surface and ambient temperature must be above 5 ° C. Considering the excessive moisture loss at temperatures above 30°C, the mixing water should be increased and the surface should be kept moist by soaking for 1 day after the surface hardening phase. In these cases, the application should be done in two batches in 1-2 cm intervals instead of 2-3 cm at once.

It is not applied on frozen surfaces or on surfaces where there is a risk of frost and heavy rain within 24 hours.

MATTERS TO BE CONSIDERED

Avoid applying in strong wind or sun. The time is longer at low temperatures and shorter at high temperatures. It should not be applied to frozen, melting or frozen surfaces within 24 hours. Appropriate plaster mesh should be used at different material connection points and at points where movement can be considered.

STORAGE TRANSPORT

Protect from frost, rain and other weather conditions.

ENVIRONMENTAL IMPACTS

Not classified as dangerous.

TECHNICAL SPECIFICATIONS

Theoretical Consumption	10 Litre/m ² /cm
Dry Density (Setting)	550 Kg/m ³
Compressive Strength	T1
Thermal conductivity	CSII (2,2 N/mm ²)
Water Vapor Permeability	8
Capillary water absorption	W1
Adhesion Strength	3,2Kgf/cm
Sound Insulation (2cm Thickness)	55 db/500hz
Fire Resistance (4cm)	F120 / 120 Minutes
Packaging	40 Liter / Bag (±02%)
Appearance	Grey color Powder
Temperature	+5°C - +50°C
Application Thickness	10 – 50 mm
Application time	45 minutes
Method of Application	Steel Trowel-Pump
Initial Drying	1 – 2 Hours
First Setting Time	72 hours
Fire Class	A 1
Shelf life	12 months in dry environment in unopened package

* These values were obtained as a result of laboratory experiments and are valid for the performance of the finished applications after 28 days. Values may vary due to differences in construction site environment.

