POLY MACHINE 1400- MACHINE APPLIED PLASTER

DESCRIPTION :

POLYMACHINE 1400 is a high-performance, machine-applied cementitious finishing plaster designed for indoor and outdoor applications. It provides excellent adhesion, smooth finishing, controlled flexibility, and high resistance against cracking and shrinkage on concrete and aerated block substrates.

ADVANTAGE:

- High workability and easy pumpability for machine application.
- Excellent adhesion to concrete, brick, and block surfaces.
- Reduced shrinkage and cracking.
- Good water retention for even curing.
- Provides a smooth, plastered finish ready for painting or decoration.

AREA OF USE :

- Interior and exterior walls.
- Residential, commercial, and industrial buildings.
- Suitable for concrete, brick, gas block, and aerated concrete substrates.

MIXTURE PREPARATION :

- Add approximately 0.45–0.50 L of clean water per 1 kg of dry plaster.
- Pour the dry mix into a clean mixing tank or mechanical mixer.
- Mix thoroughly for 3–5 minutes until a smooth, lump-free, homogeneous consistency is achieved.
- Avoid adding excess water, as it can reduce adhesion and cause sagging.
- The mixture should be used immediately after preparation; do not store mixed plaster for long periods.

APPLICATION :

- Apply using a plastering machine onto the substrate.
- Level using a steel trowel to achieve a smooth base finish.
- For final smoothing, lightly sponge the surface.
- If temperatures rise after application, lightly mist with water to prevent premature drying.

CONSUMPTION :

Approx. 15–20 kg/m² per 10 mm of thickness (depends on surface roughness).

PRECAUTION IN APPLICATION:

- Should not be applied to surfaces that were exposed to sunlight for too long or to surfaces that are too hot or frozen.
- Should not be applied when the ambient temperature is not within the values of +5°C and +30°C.
- The application area should be protected from the effects of wind and direct sunlight.
- Boards that have stayed under sunlight for too long and have lost their effective features should not be used.
- During application, place insulating boards as closely as possible to one another in order to avoid gaps in between.
- The final consumption amount might vary depending on application conditions and surface characteristics.

SURFACE PREPARATION :

- Surfaces must be clean, sound, and free of dust, grease, and loose particles.
- Concrete should be cured at least 28 days.
- Porous surfaces should be pre-wetted before application.
- Cracks and holes must be repaired prior to plastering.

SECURITY INFORMATION :

Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Material Safety Data Sheet (MSDS) should be read for detailed information.

STORAGE AND SHELF LIFE :

Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 12 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use

PACKING :

25 kg and 50 kg craft bags.

STANDARDS :

EN 998-1

TECHNICAL PROPERTIES:

Appearance	Grey and White Powder	-
Dry Bulk Density	1550 ± 200 kg/m³	EN 1015-10

PERFORMANCE :

Compressive Strength	≥ 6 N/mm² (CS IV)	EN 1015-11
Adhesion Strength	≥ 0.2 N/mm² (FP:B)	EN 1015-12
Capillary Water Absorption	W0 (kg/m²·min^0.5)	EN 1015-18
Water Vapour Permeability Coefficient	≤ 25 μ	EN 1015-19
Average Thermal Conductivity	≤ 0.79 W/m·K	EN 1745
Reaction to Fire	A1	EN 13501-1

Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.