

# Technical Data Sheet

## Rajasil LP

(Loam Plaster)

**Rajasil LP:** Rajasil LP has very good building physics and excellent building biology properties.

- Properties:**
- purely mineral
  - no chemical additives
  - vapour permeable
  - absorbs structure-borne and airborne sound
  - low moisture content equilibrium
  - moisture-regulating
  - heat-regulating
  - absorbs odours
- Rajasil LP significantly contributes to a healthy living environment.

**Areas of Application:** Use Rajasil LP for interior application in old and new buildings.  
Not suitable as basecoat for tiling. Not suitable for moist or salt-contaminated substrates.  
Responsibility for any usage outside these areas of application lies solely with the user.

**Composition:** even composition of multiple natural clay powders; quartz sands

Rajasil LP COARSE	max. grain size: 3 mm
Rajasil LP FINE	max. grain size: 1 mm

**Technical Data:**

vapour permeability resistance coefficient $\mu$	8
moisture absorption	> 100 g/m <sup>2</sup> (for an increase of relative humidity from 50 to 80%)

**Coverage:** approx. 1.5kg powder / m<sup>2</sup> / mm plaster thickness

**Substrate:** Well-absorbent, structurally sound substrates (e.g. clay brick and lime sand brick masonry etc.); for application on loam brick masonry, set up a test panel first.  
Suitable plaster bases include reed and wire mesh ("Stauss Ziegeldrahtgewebe"; made from stainless steel wire). Mounting elements made from zinc-plated steel (screws, wire, etc.) must be coated with HECK UG.  
Low-absorbent substrates, such as clinker brick and concrete surfaces etc, require the application of a fully-covering bonding bridge made with Rajasil SPB or a thin, roughened layer of e.g. HECK K+A.

**Preparation of the Substrate:** All substrates must be stable, dry, free from dust, and absorbent.  
One- or two-coat brush apply Rajasil LS in rich quantities to the substrate first.  
Do not let dry, perhaps weeping after. When plastering of reef mat and wall heating pipes the loam muds has to be dull damp. If a plaster base is used, application of Rajasil Lehmschlämme is not required.  
Prior to the application of the first plaster layer, level surface unevennesses with Rajasil LP COARSE. Trowel leveling layer flush with surface and roughen during setting process (lattice plaster plane).  
Any plaster beads and mounting elements used may become visible through changes in color. In case plaster beads must be used, we recommend products made from stainless steel or aluminum. Zinc-plated beads and mounting elements must be coated with HECK UG.

**Application and Substrate Temperature:** + 5 °C minimum

**Preparation of the Product:**

Manual application:	In a clean mortar bucket, mix Rajasil LP with the required amount of water to a lump-free consistency.
Machine application:	Application can also be done using suitable machinery, e.g. the PFT G4 plastering machine.

When using turbomixers or hopper mixers, fill in required amount of water first and then add the powder.

**Application:**

It is recommended to apply Rajasil LP in two layers. Carefully roughen surface of preceding layer before applying the next one; **make sure previous layer is dry before proceeding.**

Rajasil LP COARSE	per-layer thickness: 5 – 20 mm
Rajasil LP FINE	per-layer thickness: 3 – 15 mm

**Please note:**

Avoid even minor contaminations of Rajasil LP with gypsum, lime or cement, as this significantly reduces the bonding properties of the loam.

Make sure machinery and tools are clean.

Possible shrinkage cracks in the basecoat are not a defect in the product; after coat has dried completely, such cracks can be worked over with a finishing coat, e.g. Rajasil LP FINE or Rajasil LDP.

**Surface Treatment:**

Immediately after application of the plaster, level and smooth surface vertically and horizontally with h-profile feather edge; subsequent surface finish with wood float or sponge float.

If surface treatment is done at a later stage, moisten loam plaster surface prior to finishing.

**After Treatment:**

Protect freshly applied plaster adequately from frost.

**Drying time:**

Provide for adequate drying conditions (e.g. dehumidifier).

Allow for a drying time of 1 to 2 days per mm of plaster thickness (at approx. 20 °C; rel. humidity 60%)

**Surface Coating:**

Wipe loose particles off Rajasil LP with a soft brush. Then, apply an open-porous, low-tension-curing coating system. Especially well-suited is Rajasil SIF INTERIOR, as it has only a negligible effect on the moisture-regulating properties of loam plasters.

**Notes:**

Due to the usage of mineral raw materials, follow-up deliveries may vary in colour shade.

For continuous surfaces only use material from the same production batch, especially if no surface coating is planned.

**Safety Instructions:**

Avoid contact with eyes. Product is non-detrimental to health and non-allergenic.

**Storage:**

Unlimited shelf-life if stored in a dry place in original container.

**Quality Control:**

Constant monitoring of production through laboratory analyses.



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