



# TADELAKT - WHITE

Technical Data Sheet 275.1 - 275.4

**NOTE: Based on a complex know-how, it is important that the functional tadelakt (showers, bathtubs, sinks, etc.) be applied by an expert craftsman, who will be responsible for the good rendering of this decorative plaster.**

## ■ GENERAL

Tadelakt is a shiny mineral plaster for water resistant surfaces in traditional Moroccan style. Its surface is burnished with a smooth polished stone. To be applied in 2 layers on mineral plasters, for the interior only.

The circular polishing movements produce the typical slight cloudiness of Tadelakt.

The result is an expressive, shiny surface of warm, velvety feel.

Tadelakt is water resistant. The final treatment with an olive oil soap makes the surface water repellent, caused by a reaction between the soap and the fresh lime. Nevertheless, Tadelakt is not completely impermeable. This makes Tadelakt suitable for decorative surfaces in splash water areas. Not recommended for showers, wash basins and bathtubs.

Longer moistened areas absorb water and become dark temporarily.

This is normal and once dry the surface brightens again.

In areas of abrasion Tadelakt will develop traces over time that reflect its unique appearance.

Tadelakt is not suitable for floors.

Tadelakt is a very demanding craft technique.

To achieve the characteristic appearance and perfect functional surface good craftsmanship and experience is essential.

Therefore we periodically offer seminars on the processing of Tadelakt. We can also help you to find an experienced craftsman. Please feel free to ask us any time.

## ■ PROPERTIES

- Dry plaster
- Purely mineral
- Diffusible
- No artificial contents
- Neutral odour, emission-free
- Resistant to dirt
- Water resistant; Tadelakt treated with Polishing Soap is water repellent
- Free of cement
- Alkaline
- Tadelakt is not fat repellent
- Vegan

## ■ COMPOSITION (FULL DECLARATION)

Hydraulic lime, quartz sands, marble powder, clay, methylcellulose.

## ■ COLOUR

White

## ■ MIXING

Stir the dry powder gradually into the given amount of clear, cold water. Use a powerful electric drill with a paint stirrer. After an expanding period of approx. 30 minutes, stir again thoroughly. Readily mixed Tadelakt is to be used within 8 - 10 hours.

## ■ AMOUNT OF WATER

0.25 l of water for 1 kg of Powder. The amount of water can be increased slightly if necessary.

## ■ TINTING

Can be tinted with up to 10 % of all Tockay pigments. For example: 10 kg Tadelakt can be tinted with up to 1 kg of pigments. Tinting with Titanium White and pure iron oxide pigments only up to 5 %.





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Stir pigments with a little water to a paste. Best results are achieved by dissolving the pigments with demineralized water. Ensure that all clots are stirred out properly. Then stir the pigment paste into the mixing water before adding the Tadelakt powder. The pigment paste can also be added to the ready mixed Tadelakt mass. Mix thoroughly to achieve even tinting. Clean the rim of the bucket from time to time with a trowel.

## ■ SUITABLE TOOLS

ST-177: Tadelakt Polishing Stone (hardened ceramic)

K-4225: Spring Steel Trowel, 200 x 80 mm

The hardened ceramic used for the polishing stone has a hardness grade of 9.5 (Mohs) and is free of pores.

## ■ SUITABLE SUBSTRATES

The best suitable substrate for Tadelakt in dry and wet areas is brickwork with a at least 1.5 cm layer of hydraulic lime plaster or lime-cement plaster, both untreated and solid. Thereon Tadelakt can be processed directly.

The following substrates can be covered with Tadelakt after priming with Casein Primer (article no. 145) and an intermediate coat with Lime Wall Finish -medium- (article no. 960): gypsum plasters, lime-gypsum plasters, concrete, plasterboards, gypsum fibre boards, Wedi Boards, cement fibre boards.

On all board materials an entire reinforcement is necessary: embed a glass fibre net in Lime Wall Finish and cover it completely.

The surface of the plaster substrates must be dry and rough. Tadelakt must not be applied onto smooth surfaces. Avoid sharp edges in the plaster, make them round. Do not use corner trims.

Remove accumulations of binder and sintered skin from plaster surfaces.

Tadelakt is not suitable on continuously moist surfaces.

In dry areas Tadelakt can be applied also on clay plasters. A high solidity of the plaster is particularly important. The application on clay plaster is at your own risk. Recommended sequence of coatings on clay plasters:

Pre-hardening with Potassium Waterglass (article no. 607), dilution: 1 part waterglass + 3 parts water. Drying time at least 24 hours.

Priming with Casein Primer (article no. 145).

Intermediate coat with Lime Wall Finish -medium- (article no. 960) with embedded glass fibre net.

## ■ APPLICATION

Tadelakt is to be applied in 2 layers. Both Tadelakt layers and the first treatment with soap must be performed within the same day.

Protect the Tadelakt from drying too quick during the application, avoid draught, high temperatures and direct sunlight.

Wet dry subsurfaces before application.

### 1st Layer

Apply Tadelakt with a trowel entirely and only slightly thicker than the grain size (approx. 1-1.5 mm). Let set until the surface has become strong against impact. The 1st layer of Tadelakt must not be smoothed, polished nor densified and it should not dry completely before applying the second layer.

### 2nd Layer

Apply Tadelakt with a trowel entirely and only slightly thicker than the grain size (approx. 1-1,5 mm) and let set. Flat surfaces can be pre-densified with a trowel. Then burnish the surface while moving the Tadelakt Polishing Stone in small circles and with only light pressure until all pores are closed and gloss is achieved. The right point of time for pre-densifying and burnishing depends on the water content of the surface, its absorbency and the climate, and may vary strongly.





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## First Soaping

The first layer of soap should be applied shortly after burnishing the second Tadelakt layer. The Tadelakt must not be dried completely, it should still be a little moist.

Dilute Polishing Soap -Concentrate- (article no. 224) in a ratio of 1 part Polishing Soap + 6 parts of water.

Apply the soap solution evenly with a soft brush and remove any surpluses with it. Let set a short while. Then burnish with the Polishing Stone until regular gloss is achieved.

## Second soaping

After the surface has completely dried (max. after 2 days), apply the soap solution again. Let set a short while. Then polish the surface with a ball formed out of plastic foil (HDPE, i. e. a clear "crackling" trash bag).

### ■ FURTHER TREATMENTS

#### Waxing

To achieve a higher gloss Tadelakt can additionally be waxed. Use wax only on soaped surfaces. Do not use wax in wet areas or areas affected by water splashes (risk of white stains).

Apply Punic Wax (no. 197) thinly with a soft cloth and polish directly with a clean, soft cloth.

To increase the gloss, Tockay Carnauba Wax Emulsion (no. 420) can be used in the same way.

### ■ CLEANING AND MAINTENANCE

#### Cleaning

Clean Tadelakt surfaces only with water under addition of a little bit of Marseille Soap (article no. 223) or Corfu Soap (article no. 226), both approx. 1-2 spoons per 8 litres of water. Use a soft sponge for cleaning.

To avoid limescales wipe away water splashes dry shower walls with a soft cloth after every use.

Do not use other household cleaning agents or scouring sponges nor micro fibre cloths.

## Care

To keep the functionality in wet areas Tadelakt has to be "after soaped" every 1-2 months. Avoid matt areas and treat them with soap directly. Apply diluted Polishing Soap (see above "First soaping").

After a short setting time polish the surface with a ball formed out of plastic foil (HDPE).

Alternatively, Marseille Soap (no. 223) can be used in the same way, dilution ratio: 2-3 spoons of soap + 2 litres of water.

Once a day Tadelakt must dry completely. Better dry shower walls with a soft cloth after every use. If Tadelakt stays moist for a too long time matt areas, discolouring and fungi might occur.

### ■ REPAIRS

Scratch in or cut the total Tadelakt layer along damaged parts with a knife, then repair with original material. Repairs will be visible later on, they are usual "ageing traces".

### ■ DRYING TIMES

Dry after 2-3 days at 3 mm of layer thickness.

Treat the surface gently within the first 3 months. The final hardness will be achieved after approx. 6 months.

### ■ CLEANING THE TOOLS

Immediately after use with water.

### ■ APPLICATION RATES

Approx. 2.5 kg/m<sup>2</sup> (approx. 11 sq.ft.) for 2 layers.

### ■ PACKAGE SIZES

Art. # 275.1..... 2,5 kg (up to 1 m<sup>2</sup>/11 sq.ft.)  
Art. # 275.2..... 5 kg (up to 2 m<sup>2</sup>/22 sq.ft.)  
Art. # 275.3..... 10 kg (up to 4 m<sup>2</sup>/44 sq.ft.)  
Art. # 275.4..... 25 kg (up to 10 m<sup>2</sup>/110 sq.ft.)





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## ■ STORAGE

Stored dry and airtight the Tadelakt powder can be kept for at least **12 months**. Ready mixed Tadelakt must be used within 8 - 10 hours.

## ■ DISPOSING LEFTOVER PRODUCT

Dried residues can be disposed of with normal household waste or as construction waste.

## ■ EU VOC ACC. TO CHEMVOCFARBV

Max. limit (Cat. A/b): 100 g/l (2010), Product contains max. 1 g/l VOC.

## ■ WARNING

Pay attention to possible allergies against natural ingredients. Due to the natural ingredients used in the product a certain smell will occur!

**Keep out of reach of children.**



## ■ HAZARD STATEMENTS

- H315 – Causes skin irritation
- H318 – Causes serious eye damage
- H335 – May cause respiratory irritation

## ■ PRECAUTIONARY STATEMENTS

- P 261: Avoid breathing dust / fume / gas / mist / vapours / spray.
- P 280: Wear protective gloves/protective clothing/eye protection/face protection.
- P 302 + 352: IF ON SKIN: Wash with plenty of soap and water.
- P 304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P 305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P 312: Call a POISON CENTER or

doctor/physician if you feel unwell.

- P 501: Dispose of contents/container to waste disposal.

## ■ NOTES

We recommend attending a Tadelakt seminar to apply Tadelakt. Working with tadelakt demands some skillful craftsmanship and extensive knowledge regarding adhesion to other materials. Contact Tockay for more details on classes/workshops: [info@tockay.com](mailto:info@tockay.com)

Glass, metal and lacquered surfaces as well as all other sensitive surfaces should be covered during application. Remove product splashes immediately with water.

Tadelakt is not resistant against acids.

Fatty or coloured substances might cause irreversible spots (food, body care products, lotions, cosmetics).

## ■ LITERATURE

The book "Tadelakt" written by Gert Ziesemann and Martin Krampfer offers ideas for decorative surfaces which can be achieved with this plaster. Moreover, background information is given and the history of Tadelakt is explained.

*The information above was determined based on our most recent experiences. Due to processing methods and environmental influences, as well as the varying nature of the substrates, liability for the general validity of the individual recommendations is excluded. Users must test the product prior to application to ensure it is fit for the designated purpose (sample coating).*

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