



Lithos Arte®

Mineral mortar for natural stone restoration, consisting of natural stone and a mineral binder

Colour	Availability		
	Quantity per pallet	60	50
	Size / Quantity	14 kg	20 kg
	Type of container	Plastic canister	Paper bag
	Container code	14	20
	Art. no.		
	5570		■
	5571		■
	5572		■
	5573		■
	5574		■
	5575		■
	5576		■
	5577		■
	5578		■
	5579		■
	5580		■
	5581		■
	5582		■
	5583		■
	5584		■
	5585		■
	5586		■
	5587	■	

Application rate Approx. 2.20 kg/dm³
Apply to a large enough trial area to determine the precise amount required.

Range of use ■ Can be applied in a single layer of any thickness
 ■ Restoring, supplementing and re-profiling mineral substrates such as natural stone, brick, concrete and synthetic stone
 ■ Reproduction of ornamental building elements



Property profile ■ Made from natural stone
 ■ The (liquid) binder is a purely inorganic complex that is generated upon mixing with the powder substance
 ■ Low inherent stress
 ■ Good flank adhesion
 ■ Rapid hardening without shrinkage

Characteristic data of the product



Specific weight	Approx. 2.5 - 2.2 kg/dm ³
Porosity	0.49 µm
Compressive strength class	Fine: 6.5 ± 0.5 N/mm ² Coarse: 12.5 ± 0.5 N/mm ²
Working time	± 5 minutes
Water absorption coefficient w ₂₄	0.7 - 0.9
Shrinkage (28 days)	<0.001 %
Flexural strength	After 28 days: 3.5 ± 0.5 N/mm ²
E-modulus (DIN 1048)	Fine: 15 kN/mm ² Coarse: 24 kN/mm ²
Bond strength (28 d)	0.6 N/mm ²
Air void content	0.02 - 300 µm

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Possible system products

➤ [Funcosil FC \(0711\)](#)

Preparation

■ Substrate requirements

The substrate must be clean, dry and capable of bearing a load. It must also be free of adhering parts, impurities and any substances that may prevent adhesion.

■ Substrate preparation

Iron residues, e.g. brackets, bolts or other anchors, must be removed from the surface being repaired.

The depth of the damaged area must be increased to 1 cm below the surrounding stone surface. The area must also be roughened.

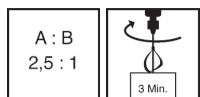
Drill holes with a diameter ± 5 mm into the surface being repaired and insert anchor rods or wood screws made of stainless steel or brass.

If the area to be repaired is very large or has overhanging parts, use a brass/stainless steel wire to bind the anchor points (never use steel or iron).

Impregnating the substrate:

Use a brush to apply the Lithos Arte® liquid to the surface being repaired. This treatment ensures that the substrate is etched.

Production of the mixture

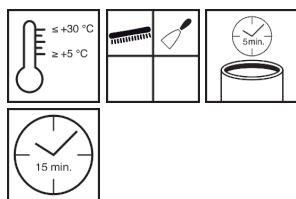


■ Mixing

Mix thoroughly for approximately 3 minutes until the proper consistency for working has been achieved.

To produce the mortar, mix the Lithos Arte® liquid with the Lithos Arte® powder intensively until an almost liquid mass is formed.

Directions



■ Conditions for use

Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.

Low temperatures increase, while high temperatures decrease the working and setting time.

■ Working time (+20 °C)

Approx. 5 minutes

■ Drying time (+20 °C)

Can be processed after approx. 15 minutes

Cured after approx. 2 hours

Can be chiselled after approx. 24 hours

Highly complex shapes and profiles are very easy to repair because the mortar sets very quickly. This means that thick layers can be applied without any delays, even overhead.

Using a scraper or trowel, apply the mortar to the liquid-covered substrate up to a height of 1 to 2 mm above the profile being repaired.

After 10-25 minutes (depending on the ambient temperature), the mortar has set sufficiently to allow the surface to be scraped with a scraper until it is flush with the desired profile.

Finishing:

During the setting process (fully set: after 24 hours depending on the ambient temperature), the colour gets visibly darker. This is due to the polymerisation reaction. Therefore, once the material has set, the surface must be sanded in order to achieve the same surface texture and colour as the original natural stone.

Once fully set, the surface can be hardened, cut or milled.

A water-repellent treatment can be applied once the material is fully set.

The colour of the dry Lithos Arte® can be changed slightly by mixing with Lithos Arte® powder, which is available in various colours.



Tips on use

Lithos Arte® must not be applied to frozen substrates.
Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar.
The type and duration of the reworking and surface treatment will influence the colour.
Slight deviations in colour between different batches are possible.
Do not use on gypsum-based substrates.

Notes

The characteristic data of the product were calculated under laboratory conditions at 20°C and 65% relative humidity.
The colour that is obtained after drying and hardening depends on the ambient conditions and the processing method. For instance, a freshly smoothed surface will be lighter than one that is smoothed later or roughened.
Different grain sizes of the same product may lead to slight differences in colour. Substrates soaked from the back may cause discolouration.
Always set up a trial area/trial areas first.

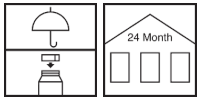
Tools / Cleaning

Mixing tool, brush, filling knife, sanding board, stonemasonry tools
Clean tools with water while the material is still fresh.



Storage / Shelf life

If stored in sealed, original containers in a cool, dry place, the product will keep for at least 24 months.
Resistant to frost



Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

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