

XERAL SP 036

Thermal insulating plaster

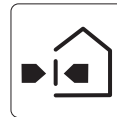
TECHNICAL PRODUCT DATA SHEET



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Application:

- For old and new buildings
- For the exterior and interior
- On all conventional base surfaces
- Extremely good applicability for »soft« base surfaces such as vertical coring bricks, lightweight concrete, cellular concrete and lightweight exterior bricks



Characteristics:

XERAL SP 036 heat insulating plaster is a rendering mortar according to DIN EN 998-1 and plaster mortar group PII according to DIN 18550 with purely mineral lightweight aggregates and thermal conductivity group (WLG) 036. (measured according to ISO 8301).

- Lime based thermal insulation plaster
- High insulating performance (group 036)
- Pure mineral
- Without biocides; without polystyrene
- Non-flammable
- Vapour permeable and water repellent
- Alkaline
- Resistant to mould and algae colonization
- Capable of mechanical working
- Quick and easy to work with
- High-yield



Technical data:

Thermal conductivity λ_D	0.034 W/ (m·K) (measured according to ISO 8301)
Binding agent	Calcium hydroxide, cement
Aggregates	Silica granulate, perlite
Fire protection class	A2
Water vapour diffusion resistance (μ)	5
Water absorption coefficient w	W1
Dry density	approx. 220 kg/m ³
Compressive strength	approx. 0.4 N/mm ² (after sufficient carbonation)

All technical data are characteristic values which have been determined under laboratory conditions on the basis of the applicable test standards. Deviations under practical conditions possible.

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Delivery form:

- 13 kg/bag
- 21 bags/palett



Material consumption:

Bag contents	13 kg
Water requirement	approx. 21 l/bag
Yield	approx. 65 l fresh mortar per bag
Consumption	2.0 kg/sqm per 10 mm plaster thickness

Processing:

PRIMER:

- On absorbent base surfaces the base surface must be prepared all-over with XERAL PRE 01 silicate deep sealant.

BASE SURFACES:

- Smooth as well as nonabsorbent or low absorbent base surfaces are to be treated with XERAL COM 10 adhesive and bonding mortar as a scratch coat for improved bonding.
- Use XERAL PRE 10 pre-spraying mortar on solid brick in particular if existing plasters have been removed.

MANUAL WORKING:

- For manual working fill the water requirement for a complete bag into a mixing bucket; intersperse the complete contents of the bag in the clean water and stir to a lump-free consistency at low speed.

MECHANICAL WORKING:

- For mechanical working, technical equipment suitable for XERAL insulating plasters must be used. Please observe »Recommendations for machinery equipment for working XERAL insulating plasters«.

MINIMUM APPLICATION THICKNESS:

- The minimum coat thickness is 10 mm; on the exterior according to standard on average at least 20 mm. When using wire mesh support the minimum coat thickness can be increased in order to achieve the necessary coverage.

PLASTER THICKNESSES:

- From a plaster thickness of > 30 mm XERAL insulating plasters should be applied in several coats. The final coat of a built-up insulating plaster should be approx. 20 mm in order to achieve the best possible surface finish when the final coat is smoothed off. The layer thickness of an individual coat can be up to approx. 60 mm depending on the base surface and consistency of the mortar. The surfaces of individual intermediate coats are left with the spray pattern and do not need to be additionally roughened. As soon as a coat of plaster has sufficiently stiffened, which when the weather is fine can be as early as the same day, the next coat can be applied. If an intermediate coat is left longer than 3 - 4 days due to an on-site interruption of work this surface is to be roughened.

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- Always spray the plastering mortar »from bottom to top« i.e. build up from bottom to top.
- The final coat is roughened all over using a suitable tool once it has sufficiently hardened.

WORKING TIME:

- The working time for the fresh mortar is maximum 2 hours depending on weather conditions.
- When mechanically working the mixing pump and hoses should be run empty and cleaned for interruptions of longer than 15 minutes.

TEMPERATURE AND WEATHER CONDITIONS:

- The freshly applied plaster is to be protected by suitable means from dewatering too quickly in the sun, in the wind and at high temperatures as well as from exposure to driving rain and the action of frost.
- High humidity and low temperatures can significantly prolong the curing period.
- Do not work with component and air temperatures below +5°C or above + 30°C.



Surface coating:

- Before continuing to coat the insulating rendering/plaster with vapour permeable products the dwell time of the insulating rendering/plaster under normal weather conditions should be at least 1 day for every 5 mm thickness of rendering/plaster but at the least 10 days. Normal weather conditions means: temperatures must be above 10° C and the relative humidity must be maximum 60 %.
- First of all a state of the art compliant levelling coat for protection of the insulating rendering/plaster is to be applied. This levelling coat consists of XERAL UNI A universal lime plaster Exterior outside or XERAL UNI I universal lime plaster Interior inside, each with inlay of XERAL COM 4x4 reinforcement fabric. The all-over reinforcement reduces the risk of crack formation. Observe a sufficient dwell time before application of a final coat of rendering/plaster.
- Dispersion plasters/renderings are unsuitable for final coatings since they impair vapour permeability. As far as paints are concerned the use of vapour permeable paints is recommended.

Storage:

- Store products in bags on pallets dry and protect from damp
- Shelf life approx. 12 months
- Materials with expired shelf life must no longer be used



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Safety precautions:

- Mortar reacts strongly alkaline with water and for that reason avoid contact with the skin and eyes
- Causes irritation of the skin.
- Causes severe damage to eyes.
- Can cause allergic skin reactions.
- Can cause irritation of the respiratory tract.
- Keep out of the reach of children.
- Avoid inhalation of dust. Only use outdoors or in well-ventilated premises.
- Wear protective gloves / protective clothing / eye protection / safety mask.



IN CASE OF CONTACT WITH EYES

- Carefully wash out with water for several minutes.
- Remove contact lenses if worn. Continue washing.
- Immediately consult a doctor/ seek medical help.

IF INHALED:

- Bring the person into the open air and ensure that breathing is unhindered.

IN CASE OF CONTACT WITH THE SKIN:

- Wash with copious amounts of soap and water.

IN CASE OF SKIN IRRITATION:

- Consult a doctor/ seek medical help. Remove contaminated clothing and wash before wearing again.
- With proper storage low chromate for at least 6 - 12 months from manufacturing date. See declaration on container.
- Take contents/container to suitable waste disposal collection point. Low chromate to TRGS 613 (Technical rules for hazardous substances)

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Interbran Baustoff GmbH

Interbran Baustoff GmbH have undertaken to make natural raw materials efficiently usable for mankind. By means of intensive research completely new technologies based on natural materials were able to be developed. With its insulating plaster systems the company presents itself as a specialist for high-performance building products and stands for a responsible treatment of resources and the environment.

Consulting service:

Interbran Baustoff GmbH
 Wonnegastr. 155
 67550 Worms-Abenheim
 Telephone: +49 (0) 62 42 | 99 09 25-0
 Telefax: +49 (0) 62 42 | 99 09 25-9
 info@xeral.com
 www.xeral.com