



TECHNICAL DATA SHEET

30063

WDVSMART

K+A UNIMÖRTEL

AREA OF APPLICATION

WDVSMART K+A UniMörtel is an all-purpose, mineral bonding and reinforcing mortar for the SÜDWEST WDVSmart external wall insulation system. The product is also suitable for refurbishing defective facade surfaces. With the following coating, it can be applied as a finishing plaster. Suitable for interiors and exteriors.

PROPERTIES

- high adhesive strength
- very good adhesion to the substrate
- can be used in plinth areas with paint coat
- can be used as external render with following paint coat
- fibre-reinforced
- highly water vapour permeable
- highly water-repellent
- extremely weather-resistant
- suitable for bonding render carrier boards
- suitable for float-finishing and texturing
- suitable for use as renovation filler

COLOUR SHADE: natural white

Slight differences in colour are possible due to the use of natural extenders.

CONTAINER: 25 kg

COVERAGE:

version	Consumption
Per mm layer thickness	Approx. 1.4 kg/m ²
Reinforcement	5.50–9.00 kg/m ²
Bonding EPS boards	5.00–7.00 kg/m ²
Bonding mineral wool	6.25–7.50 kg/m ²

Consistency, application, and substrate have a direct influence on consumption. All consumption values quoted are provided as a guide only. Precise consumption values for a project can be obtained by creating a test surface.

TECHNICAL DATA:

Gross density of mortar	EN 1015-11	1.40 g/cm ³
Mortar class	EN 998-1	CS III
Mortar class	DIN 18550-1/2	PIII
Reaction to fire	EN 13501-1	A2-s1, d0
Minimum layer thickness		4 mm
Maximum layer thickness		7 mm

The characteristic values stated are average values or approximate values. Due to the use of natural raw materials in our products, the stated values can vary slightly in the same delivery batch without adversely affecting the suitability of the product.

AREA OF APPLICATION

GENERAL RULES:

The substrate must be prepared and the coating work performed in accordance with the state of the art. All coatings and preliminary work should always be geared towards the project and the requirements it is exposed to. Please also observe the current BFS data sheets, published by the German Federal Committee for Paints and the Protection of Objects. Also see German construction contract procedures (VOB), Part C, DIN 18363, Paragraph 3 "Painting and

coating work". Treating/removing coatings by sanding, welding, burning off, etc. can cause harmful dust and/or vapours. Only carry out work in well-ventilated areas. Use appropriate breathing apparatus/protective equipment, if necessary.

All substrates must be clean, dry, load-bearing, and free from release agents. Substrates must be checked in terms of their load-bearing capacity and suitability for subsequent coatings. If necessary, create a test surface and test the adhesion. Damp or not fully cured substrates can lead to damage in subsequent coats, such as bubble formation or cracking. The substrate must be free from release agents, stress, and must not change shape. Swellable (e.g. paste residues) and unstable substrates are not suitable. Substrates must be checked in terms of their load-bearing capacity and suitability for subsequent coatings. If necessary, create a test surface and test the adhesion.

German construction contract procedures (VOB) Part C DIN 18 363, Part 3, and the BFS data sheets must be observed in this regard. The coating build-ups and proposals listed do not release the applicator from his or her own responsibility for substrate testing and assessment. Read and follow the technical documentation for the priming coats and intermediate paint coats listed. The application method, tools, and material preparation have a direct influence on the result.

SUBSTRATE

SUBSTRATE PREPARATION:

HIGHLY ABSORBENT SUBSTRATES:

Prime with SÜDWEST InnenGrund, SÜDWEST HydroGrund, or SÜDWEST

ThixGrund (depending on the area of use) and treat the substrate accordingly.

MOULD-INFESTED SURFACES:

Pre-treat with SÜDWEST Schimmel-Fresser or SÜDWEST Fungan and read the associated technical documentation.

SURFACES EXPOSED TO ALGAE ATTACK:

Pre-treat with SÜDWEST Schimmel-Fresser or SÜDWEST Fungan and read the associated technical documentation.

SURFACES STAINED WITH NICOTINE, WATER, SOOT, OR GREASE:

Wash surfaces with a mixture of water and a household cleaning agent with degreasing properties, allow to dry thoroughly, and brush. Apply a stain-blocking priming coat with SÜDWEST Isolierfarbe L (depending on the area of use); a second priming coat might be necessary depending on the condition of the surface.

LOAD-BEARING EXISTING COATINGS:

Check coatings for their suitability and load-bearing capacity. Remove any coatings which are not load-bearing. The substrate must be cleaned where necessary.

SURFACE AREAS WITH LIGNIN OR OTHER WOOD CONSTITUENTS:

Apply a stain-blocking priming coat with SÜDWEST Isolierfarbe L (depending on the area of use); a second priming coat might be necessary depending on the condition of the surface.

APPLICATION

MATERIAL PREPARATION:

Depending on the application type and required consistency, each bag (25 kg) must be mixed with approx. 5–6 l of clean water to form a mass that is free of lumps using a mixing paddle running at a slow speed. Mix for at least 2 minutes and allow a maturing time of 3 minutes. After the maturing time, further mixing of approx. ½ minute is required. The consistency can be adjusted by adding water. If the material is surface-dry or has initially hardened, do not add more water or new material to make it usable again.

BONDING INSULATION BOARDS:

Apply the spot-bead method on the rear side of the board using a rust-free plastering trowel, with three additional adhering dots in the centre of the board. A minimum contact surface of 40 % is required; when applied to wall structures,

a contact surface of 60 % is required. Alternatively, apply directly to the wall area by machine; follow the manufacturer's specifications.

REINFORCEMENT:

Apply to the insulation boards using a rust-free smoothing trowel; can also be applied by machine. Embed glass-fibre mesh in the top third and trowel over, with an overlap of at least 10 cm. The glass-fibre mesh must be completely covered over. Diagonal reinforcement must be used at the corners of building openings. Recommended reinforcing coat thicknesses: 4–7 mm This may differ depending on the application (diagonal reinforcement, overlapping, etc.).

TEXTURED RENDER:

Can be used as textured render. Minimum layer thickness 2 mm, maximum thickness 5 mm. Texturing according to the required surface (smoothing trowel, trowel, sponge, etc.). A finishing coat with SÜDWEST facade paint is required. When used in an EWIS as a finishing render, SÜDWEST SiliconTherm or LotusanTherm is essential as a finishing coat.

FLOAT-FINISH/FINE TEXTURED RENDER:

A levelling coat may be necessary depending on the substrate. Trowel off WDVSmart K+A UniMörtel to grain size and allow initial hardening. Float-finish with a fine sponge float. A finishing coat with SÜDWEST facade paint is required. When used in an EWIS as a finishing render, SÜDWEST SiliconTherm or LotusanTherm is essential as a finishing coat.

FINISHING RENDER:

Can be used as a finishing render if the reinforcement/filler layer is also WDVSmart K+A UniMörtel. A finishing coat with SÜDWEST facade paint is required. When used in an EWIS as a finishing render, SÜDWEST SiliconTherm or LotusanTherm is essential as a finishing coat.

SPRAY VALUES:

See the information from the equipment manufacturer.

APPLICATION TEMPERATURE:

Lowest substrate and air temperature: +5°C
Highest substrate and air temperature: +30°C
Maximum rel. ambient humidity 65 %

TIME FOR APPLICATION:

At +20°C: approx. 60 minutes

APPLICATION NOTES:

Observe the applicable legislation and directives (e.g. building regulations, German Energy Saving Ordinance (EneV), etc.), BFS data sheet no. 21, information from the EWIS trade association, the relevant EWIS approval, and the technical approval for the plastic anchors. Other directives must also be followed, e.g. BFS data sheet no. 19 and the following, as well as other applicable arrangements for plastering work.

TOOL CLEANING:

Clean with water after use. Collect the cleaning / rinsing water and dispose of it properly.

DRYING

Cured after approx. 1 day/mm layer thickness; drying time will be longer at lower temperatures and higher humidities. Suitable protective measures must be taken when drying in unfavourable weather conditions (e.g. rain, etc.).

APPROVALS

Z-33.41-955 WDVSmart EPS geklebt
Z-33.43-956 WDVSmart geklebt + gedübelt

STORAGE

Tightly sealed. Store in dry and frost-free conditions.

DISPOSAL

Only return empty containers for recycling. Dispose of containers with residues at the responsible hazardous waste centre. Dispose of dried paint brushes and rollers with residual waste. Do not dispose of paint or rinse painting tools in sinks or drains.

COMPOSITION

White Portland cement, hydrated lime, polymer powder, mineral extenders, organic extenders, thickener, hydrophobic agents.

GENERAL SAFETY ADVICE

Good ventilation must be ensured while paints and varnishes are being applied and are drying. Keep away from food, drink, and animal feed. Avoid contact with skin and eyes. Do not breathe in dust during sanding work. Keep out of

reach of children. Do not allow to enter ground water, bodies of water, or the sewer system in undiluted or large quantities. Further information and the current SDS are available at www.suedwest.de

TECHNICAL CONSULTATION

Our sales representatives will be happy to answer any questions which have not been covered by this Technical Data Sheet. Our technical customer service team at the factory is also available to answer any detailed queries you may have (06324/709-0).

DISCLAIMER

We are committed to taking the utmost care. However, we are only able to provide general information based on our own experiences, developments, and investigations, and these naturally cannot take the individual conditions of a project (substrates, weather conditions, other conditions) into account. The applicator is therefore obliged to maintain their knowledge in accordance with the state of the art and act responsibly.

Our employees are available to provide specific advice and will be happy to do so. We accept no responsibility for the use of the product in combination with other products. The data provided in this Technical Data Sheet does not constitute binding information or liability.

Furthermore, suspension or the appearance of a subsequent edition will invalidate this Technical Data Sheet; information about this can be accessed at any time on our website: www.suedwest.de.

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