

## TECHNICAL DATA SHEET

# 30093

## WDVSMART ML 041



### AREA OF APPLICATION

WDVSmart ML 041 is a non-combustible insulation board made of stone wool that is coated on both sides. The board benefits from both high resistance to pressure and high adhesive strength. It is especially suitable for use as fire protection in the WDVSmart system. In interiors and exteriors.

### PROPERTIES

- Nominal value  $\lambda_D$  0.040 W/(mK)
- Particularly suitable as fire protection
- Anchor plate expansion is not necessary
- Non-combustible
- Coated on both sides
- Pressurised filling is not necessary
- Melting point > 1,000°C
- Non-fluorescent
- Heat and sound-insulating
- Diffusion-open

**COLOUR SHADE:** brown

**CONTAINER:** 120 x 20 cm

**COVERAGE:** 1m<sup>2</sup>/m<sup>2</sup>

### DELIVERY DATA:

ver- sion	m <sup>2</sup> /bun- dle	m <sup>2</sup> /pallet	R valu e m <sup>2</sup> K/ W
5 cm	1.92 m <sup>2</sup>	23.04 m <sup>2</sup>	1.20
6 cm	1.92 m <sup>2</sup>	19.20 m <sup>2</sup>	1.45
8 cm	1.44 m <sup>2</sup>	14.40 m <sup>2</sup>	1.95
10 cm	0.96 m <sup>2</sup>	11.52 m <sup>2</sup>	2.40
12 cm	0.96 m <sup>2</sup>	9.60 m <sup>2</sup>	2.90
14 cm	0.96 m <sup>2</sup>	7.68 m <sup>2</sup>	3.40
16 cm	0.96 m <sup>2</sup>	5.76 m <sup>2</sup>	3.90
18 cm	0.96 m <sup>2</sup>	5.76 m <sup>2</sup>	4.35
20 cm	0.96 m <sup>2</sup>	5.76 m <sup>2</sup>	4.85
22 cm	0.48 m <sup>2</sup>	4.80 m <sup>2</sup>	5.35
24 cm	0.48 m <sup>2</sup>	3.84 m <sup>2</sup>	5.85

### TECHNICAL DATA:

Reaction to fire	EN 13501-1	A1
Water vapour diffusion-equivalent air layer thickness $\mu$	EN 12086	1
Thermal conductivity		0.041 W/(m*k)
Thermal conductivity group		041
Tensile strength perpendicular	EN 1607	> 80 kPa

### 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 layers of paint 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.

### SUBSTRATE

The substrate must be dry, clean, even, stable, and load-bearing.

#### SUBSTRATE PREPARATION:

Effloresce, sintered layers, and other release agents must be removed. Remove coarse mortar burr, level significant unevenness with suitable rendering and plastering mortar. Levelling with WDVSMART K+A UniMörtel, WDVSMART K+A Mörtel Weiss might be possible depending on size. Check existing plaster and render for cavities and touch up. Remove all traces of non-load bearing plaster/render and coatings. Unevenness of up to 1 cm on bonded systems and up to 2 cm on bonded and anchor-fixed systems may be bridged.

Once the levelling mortar has dried, work can continue as normal. Observe the technical data for the mortar. You will also need to observe the technical data for the bonding mortar you have chosen. Anchor fixing may be necessary depending on the type of substrate.

### APPLICATION

#### FULL-SURFACE BONDING:

full-surface with the notched trowel on the substrate or insulation board. Alternative by machine in a wavy line. Min. adhesive surface manually 40 %, by machine 50 %. Possible without anchors with wind suction up to 1.6 kN/m<sup>2</sup> (fire protection is an exception).

The labelling of the façade insulation board must face outwards when it is bonded.

#### REINFORCEMENT:

Reinforcement can be completed in a single application cycle when applied by machine.

#### APPLICATION TEMPERATURE:

Surface and ambient temperatures must not fall below +5°C or exceed +30°C during application and drying.

#### APPLICATION NOTES:

Ensure compliance with applicable legislation and directives (e.g. building regulations, EnEV, Buildings Energy Act in Germany, etc.), BFS data sheet no. 21, information from the Fachverband Wärmedämmverbundsystem in Germany, and the relevant EWIS system approval, as well as the technical approval for the anchors. Further directives including BFS data sheet no. 19 and following also apply, along with other valid regulations governing rendering and plastering.

#### PRODUCT-SPECIFIC INFORMATION

Do not bring into contact with solvents, ensure protection against moisture. Bond and press on the insulation boards tight-butted in a bond from bottom to top. Ensure flush and perpendicular installation. Use the same insulant to close unavoidable gaps (over the entire depth of the insulant layer). Do not apply adhesive to the long and front sides of the boards. Overlap building corners. Fire protection measures must be observed. Please ensure compliance with all current legal directives; unbiased information is also available from the Fachverband Wärmedämmverbundsysteme in Germany.

For substrates that do not have sufficient load bearing capacity (bond strength < 0.08 N/mm<sup>2</sup>), the bonded insulation boards must be additionally fixed with anchors after drying. It is also advisable to fix surfaces that have previously been

coated with facade paint with anchors. Here too, the minimum bond strength of 0.08 N/mm<sup>2</sup> applies. In case of doubt, create a test surface with bonded insulation boards. Make sure that there are no cross joints and that the joints do not continue vertically. The insulation boards must be laid in an offset pattern. Structural expansion joints must be incorporated into the system. Until they are reinforced, the insulation boards must be protected against direct solar radiation, excess heating up, and other effects of the weather. Depending on the intensity of the exposure, such protection might need to be in place until the final layer of plaster or render is applied. Exposure to excess UV can damage the priming coat on the boards. Not suitable for use in areas that are close to the ground and at risk from moisture.

#### APPROVALS

Z-33.41-955 WDVSmart EPS bonded  
Z-33.43-956 WDVSmart bonded + anchor-fixed

#### STORAGE

Store dry, protected against moisture. Do not expose to the effects of the weather and UV without protection. Store in enclosed rooms or under shade.

#### DISPOSAL

Ensure compliance with applicable legal directives governing normal construction waste. Ensure compliance with the VDPM guideline on recycling stone wool.

#### 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](http://www.suedwest.de).

#### TECHNICAL CONSULTATION

Please contact our technical customer service team (06324-709-0) if you have any questions that have not been answered in this Technical Data Sheet or relate to a specific project. We would be happy to provide further assistance.

#### 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](http://www.suedwest.de).

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