



Material Data Sheet Slate-Lite R&D GmbH

Product:

Slate- Lite consists of a layer of natural slate with 0.1-1.4mm and a backing made of natural polyester with glass fiber for strength and dimensional stability.

Material Names for Colored Slate:

D-Black, Galaxy Black, Cobre New, Argento Auro, Cobre, Verde, Auro, Verde Gris, Argento, Sea Green/Mare, Molto Gris, Molto Rosa, California Gold, Negro, Arkobaleno Colore, Arkobaleno Gris, Falling Leaves, Blanco, Terra Rosso, Tan

Sizes in mm:

Standard sizes 1220mm x 610mm in all materials.

Special sizes up to 2100mm x 1050mm available in multiple stones.

Main Compositions:

Top Layer:

Oxygen (O) – 44,6 %

Carbon (C) – 31 %

Silicon (Si) – 13 %

Aluminum (Al) – 5,6 %

Iron (Fe) – 3,4 %

Potassium (K) – 2,4 %

Back Layer:

Oxygen (O) – 73 %

Carbon (C) – 26 %

Formaldehyde content:

Slate-Lite is Formaldehyde free

Thermal Expansion:

0,5 - 0,8mm

Weight per m²:

Approx. 1500 g/m²

Material thickness in mm and inches Total thickness:

1.5 - 2.0 mm

Test according to ASTM

C-121:

Water absorption in unsealed surface +2.50%

Processing temperature:

10 to 35 °C are recommended



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Abrasion test according to

IS: 9162-1979:

Average abrasion 0.70mm

Maximum wear 0.80mm

Density (mass per unit area),

Kg/m²

IS: 12866-1989 (unsealed surface)

1.45 Kg/m²

Application:

Slate-Lite can be applied in almost all areas (floors, walls, ceilings, interior design, furniture, outdoor areas and facades)

When being applied on high traffic areas, such as industrial floors and outdoors, a 2 component PU sealer is recommended. (KLB 800E)

For lower traffic areas such as private homes or apartments we recommend water based Impregnator (Slate-Lite Special Impregnator).

Lamination on wood, metals, plasterboard, fiber cement:

When laminating (bonding) Slate-Lite onto wood, fiber cement, plasterboard and metal, as well as most furniture applications we recommend a 1 component PU (polyurethane) adhesive such as (Soudal PU Construct).

If the Slate-Lite is only applied on one side of a carrier material, it is important to have a counter balance on the other side for stability. Mechanically mounted panels which have the Slate Lite on one side, need a craft paper or foil of at least 150 g / m².

Slate-Lite has a natural, rough split able surface with a tolerance of up to 2 mm.

Thickness equalizing additions protect the veneers from being damaged.

Proven are 7 mm thick rubber plates with a shore grade of 50 and a temperature Resistance of at least + 80° C. It is important that the rubber matt has an insulating effect, so that the press time can be therefore extended.

Depending on the adhesive type and press temperature of 80° C, press time approximately 6 minutes. Depending on the press configuration, the pressure has to be carefully set.

Sealing:

By a single treatment with Slate Lite Stain Stop, almost all natural stone surfaces are easier to maintain. Not only water but also oil and grease can no longer penetrate into the surface. Sun spots are prevented. For light traffic areas indoors, we recommend sealing with the Slate Lite Stain Stop. For walls, ceilings, furniture and kitchen fronts. This is suitable for all surfaces without too much use. Note the processing of information from the manufacturer.

Regular Maintenance:

All natural stone surfaces, even if it is impregnated (sealed), must be wiped moist regularly.

We recommend our Slate Lite Care Cleaner which contains a small amount of the Impregnator which insures the surface stays sealed. The care cleaner is mixed with water and then can be mopped over the floor.

Important Note: Acid cleaners attack the surface of the stone.



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Storage:

The storage of unsealed material must be dry, preferably frost-free and sun protected. Protect against climatic influences.

Tools to work with:

Slate-Lite can be worked with any commercially available tools (DIY tools). Sawing, drilling, milling, cutting, bending, pressing.

For industrial processing we recommend using diamond blade tools due to strong wear on wood blades.

Quality Assurance:

For quality assurance a German quality management is used. Starting in the purchase of the Slate raw material until the eventual shipment of the finished Slate Lite through each square cm of the product is put through a strict quality control. All products are inspected by several quality inspectors tested until the final release to be shipped.

Fire resistant:

Slate-Lite with a special backing is also available as EU burning grade **C d0s3**.

For further information please contact our sales office.

Dimensional tolerances:

The dimensional tolerance is ± 1.5 mm in length and width and at the right angles. For industrial use tolerance requirements may be adjusted.

Color:

Color Slate is an absolutely timeless natural product which evolved over millions of years in the earth's crust. Slate is a natural product, form and color variation is possible and invariably makes every square meter to a unique design. We are always striving for little color variation in lots and structurally similar sheet decor. For large areas you should contact us if a specific color and structure are required.

Shipping:

Due to its low weight Slate-Lite can be sent worldwide with low cost. For quick delivery even a parcel service can be used.

Distributors:

The R & D GmbH has an almost worldwide Distribution network. Simply send us your request and we will redirect them to their respective Distributors.

www.slate-lite.com

R&D GmbH

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