



PRODUCT

UltraThin eco+ consists of a layer of natural slate with 0,3 – 0,8 mm and a backing enforced with a cotton carrier for strength and dimensional stability.

MATERIAL COLORS AND CHANGES

Natural stone is an absolute timeless natural product, which evolved over millions of years in the earth's crust. Form and color variation are possible and invariably make every square meter to a unique design.

We are always striving for little color variation in lots and structurally similar sheet decors. For large areas you should contact us if a specific color and structure is required.

Please check our main catalogue or the sample set for the complete range of colors and patterns.

STANDARD SIZES

Standard size: 1.220 x 610 mm
Large formats: 2.400 x 1.200 mm

All two sizes are available for most colors and decors. For daily up-to-date availability please contact our sales department.

*) The dimensional tolerance is $\pm 1,5$ mm in length, width and at the right angles.

FORMALDEHYDE

UltraThin eco+ is free of formaldehyde.

CE-CERTIFICATION

UltraThin eco+ as been approved by CE-Standard:
DIN EN 15102:2011-12
DIN EN 15102:2008+A1:2011

FIELDS OF USE

Walls, furniture.

STORAGE

The storage of unsealed material must be dry, preferably frost-free and sun protected. Protect against climatic influences. Material should be stored flat in order to avoid deformation.

WEIGHT

approx. 800 g/m²

THICKNESS

approx. 0,5 - 0,9 mm

DENSITY

1,45 kg/m²

TEMPERATURE RESISTANCE

60°C (80°C short-time)

PROCESSING TEMPERATURE

10°C to 35°C are recommended.

FLEXIBILITY

UltraThin eco+ is 3D-formable by heat.

SUBSTRATES

Wood, metal, glass, rigs, concrete etc.

Please note the instructions and datasheets of all used adhesives or plastics used for subfloor processing.

Note: *UltraThin eco+* is not suitable for outdoor and wet areas.

TOOLS

UltraThin eco+ can be cut with a carpet knife or a scissor.

If masking tape is used, please make sure, that no adhesive is left on the sheet. So please use tape with low adhesion and do not leave the tape on the surface for too long.

Test any adjustments to the materials and tools beforehand in an inconspicuous place or a test sheet.

LAMINATION ON WOOD, METALS, PLASTERBOARDS

Lamination with 1-Component-PU-Adhesive (Polyurethan), such as **Slate-Lite PU**.

Compensating additives: Backing paper 120 g/m² or 0,8 mm HPL.

Use an additional 7 mm rubber with a hardness of 50 Shore. Depending on the design of the press, the pressure must be carefully selected.

UltraThin eco+ can be glued with our **UltraThin eco+ Contact Adhesive** or any standard wood glue.

CLEANING

All natural stone surfaces, even if impregnated or sealed, must be wiped moist regularly. Please use a lint-free cloth. **Important note:** Acid cleaners attack the surface of the stone!



SURFACE PROTECTION



Slate-Lite
Special Impregnator



Slate-Lite
Special Protection



Note: For detailed information about our impregnations and sealings, please refer to the respective datasheet and instructions.

Slate-Lite Special Impregnation

Test substances:	Exposure	Slate	Myca
Acetone	10 s		
Caustic potash (10%)	2 min		
Ultrasol	10 min		
Vinegar (5%)	1 h		
Ammonia (25%)	16 h		
Water	16 h		
Butyl acetate	10 s	Attacks impregnation	
Mustard	5 h		
Ethanol (48%)	1 h		
Acetic acid (98%)	1 h	Attacks impregnation	
Pure acid cleaner	16 h		Discoloration
Basic cleaner 1:5	16 h	Discoloration	Discoloration
Skin protection creme	16 h	Discoloration	Discoloration
Cola	6 h		
White spirit K30	16 h		

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Acetic acid (98%)	1 h	Leaves edges	
Pure acid cleaner	16 h		Discoloration
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Skin protection creme	16 h	Discoloration	Discoloration
Cola	6 h		
White spirit K30	16 h		

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 *UltraThin eco+*, each square cm of the product is out through a strict quality control. All products are inspected by several quality inspectors and tested until the final release to be shipped.

SHIPPING / UNBOXING

Normally, *UltraThin eco+* is packed into boxes and put on pallets or delivered without a pallet. All transport lines can be used. Due to its low weight, *UltraThin eco+* can be sent worldwide with low cost. For quick delivery even a parcel service can be used.

SALES NETWORK

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

ENVIRONMENTAL PROTECTION

Thanks to their lightness and thinness, our thin stone veneers are not only easy to work with and offer unique indoor and outdoor possibilities, but with *Slate-Lite* you also opt for a

environmentally friendly stone decoration!

The emission rates on the transport routes are many times lower for *Slate-Lite* than for conventional stone slabs, which leads to a much more positive life cycle balance.

Most of our goods are shipped by sea to our central warehouse. With a pollutant quantity of approx. 15.1 grams of CO₂ emissions per kilometer (source: NABU), the following example calculation of one of our containers results: (Comparative calculation: Sea route India/Germany. granite slab vs. *Slate-Lite*)

	Transport route	Material (m ²)	Charge (kg)
Slate-Lite	Seacontainer 40	10.637 m ²	26.500 kg
Granit slab (2 cm)	Container 40'	441 m ²	26.500 kg
	Distance (km)	CO ₂ emission (g)	CO ₂ emission / m ²
Slate-Lite	7.500 km	3.001.125,00	282,12 g
Granit slab (2 cm)	7.500 km	3.001.125,00	6.806,27 g

A sheet of *Slate-Lite* produces about 95% less CO₂ than a conventional thick stone slab during transport!

In addition, the manufacturing process we have developed also conserves a lot of natural resources: Depending on the decor, we extract 200 – 400 sheets of *Slate-Lite* from the stone material of a single conventional stone slab of 2 cm!

Of course, we are also increasingly relying on recyclable solutions for our packaging, so that we have already been able to reduce the proportion of plastic waste many times over in recent years. And of course we will continue to work on this path in the future!

INFORMATION: MATERIAL CHECK AFTER DELIVERY

Slate-Lite is made of layered rock. Color differences in the individual plates and quartz veins that run through the stone, natural cracks or slight chipping may occur.

This is not a complaint reason, but is a feature of the natural stone surface!

Should you nevertheless discover a defect or too great changes in color and structure of the goods sent, we ask you to inform us immediately within 14 days.

Goods that are processed despite obvious defects are excluded from regression claims!