

Max Resistance² Compact Laminate for extreme demands

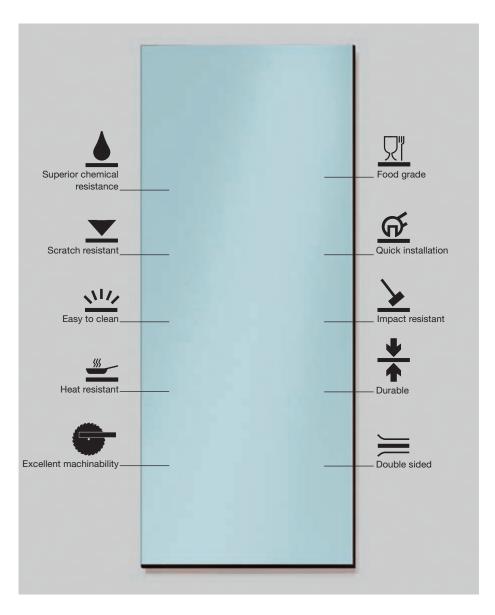
interior

for people who create

Max Resistance². Now best in his class.

If you are looking for a worktop panel that resists even the most aggressive chemicals in the extreme working conditions of the laboratory sector, there is only one choice: Max Resistance².

A product improvement of the established FunderMax worktop panels.



- higher coating thickness
- abrasion-resistant
- silicone free
- certified quality
- integrated surface

Because the surface, protected with a double cured urethane acrylic coating, has proven itself to be unaffected by solvents and aggressive chemicals, easy to clean and disinfect, it extends the serviceable life of your equipment (worktop panels, walls, tables etc.) enormously.

Additional benefits

Max Resistance² is both chemical-resistant and highly mechanical resistant. If you know the heart of the matter, you will immediately understand why. Max Resistance² consists of approved and tested raw materials, produced under high temperature and pressure they emerge as a unique compact laminate core to a homogeneous decorative panel.

Manufactured without joints and fully enclosed it is therefore permanently resistant against moisture penetration.

Max Resistance²

Ideal for all types of laboratories, in the hygienic sector, for research centres, hospitals or doctor's surgery, photo laboratories, the foodstuffs industry, schools, pharmaceutical industry and everywhere, where absolute cleanliness of a highly resistant surface is demanded.

Contact with highly concentrated acids like Nitric or Hydrochloric Acid do not change the surface or color at all, which is unique compared to all other compact worktops on the market.

Max Resistance². Optimal size.

Panel size:

3660 x 1630 mm (144,1 x 64,2 inch)

Standard thicknesses:

12 mm (~1/2 inch)

16 mm (~5/8 inch)

19 mm (~3/4 inch)

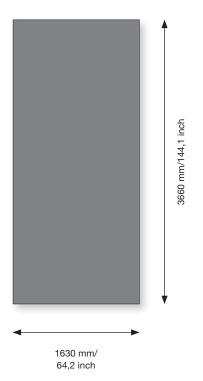
25 mm (~1 inch)

other thicknesses upon request

Surface texture:

RE

The surface texture is combinable with 5 other FunderMax panel sizes and all product lines, if it is needed in an larger project or furnishing of buildings.



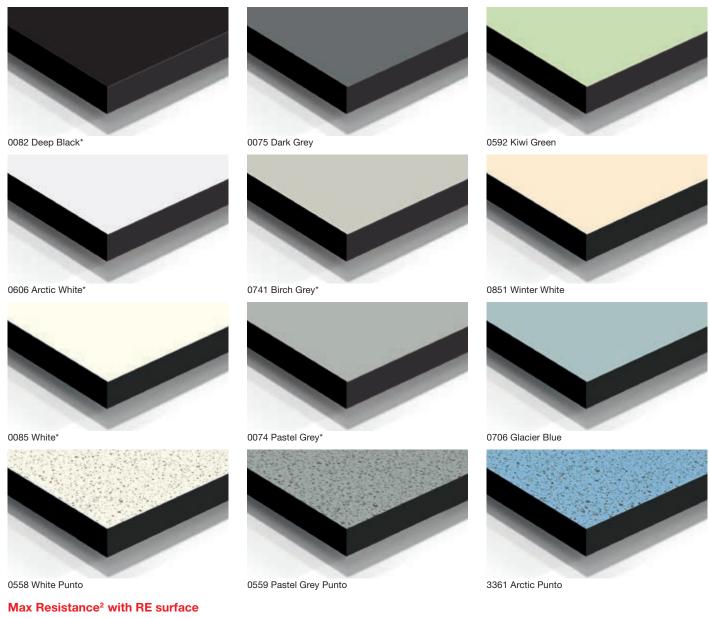




Collection Max Resistance²

A deep black core. No need for treatment or sealing.

Max Resistance² comes with double sided decor and finish for maximum flatness and minimized off-cuts in fabrication.



*Standard decors: no minimum order quantity Other decors: Minimum order: 40 panels Peelable protective film on both sides for maximum protection during transport, fabrication and installation.

On request also available in F-quality!

All decors also available as Max Compact Interior with surface texture FH in size $3660 \times 1630 \text{ mm}$ (144,1 x 64,2 inch) and some more sizes.

Please ask for details.

Color variations from the original decors are caused to the technical limitations of the printing process. Please ask always for original samples.

Design and fabrication Max Resistance²

More decors available

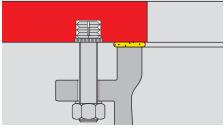
There are many more decors available in the standard range of decors with FH surface. Please ask for details.



Processing recommendations

Our Resistance² panel is very easy to machine and to install in difference to other materials.

For special and detailed information about processing recommendations please have a look into our brochure "Interior Technique" or visit our website www.fundermax.at



Option for installation of wash basins



Option for worktop joint



Properties of Max Resistance²

Max Resistance² has many specific properties that make the panels perfect for use in laboratories, hospitals and applications where a higher resistance is required.



Acetic Acid 99% Acid Dichromate 5% 2) Chromic Acid 60% Formic Acid 60% Formic Acid 90% 2) Hydrochloric Acid 37% Hydrogen Peroxide 30% 2) Hydrogen Peroxide 30% 3) Nitric Acid 20% Nitric Acid 20% Nitric Acid 30% Phenol 90% Sodium Sulfide Saturated Phosphoric Acid 33% Solvents Sulphuric Acid 33% Sulphuric Acid 77% Sulphuric Acid 77% Sulphuric Acid 77% Sulphuric Acid 70% 1) Beases Acetone ²⁰ Sulphuric Acid 70% (1:1) Bases Aceton Pictor Acid 70% 2) Bodium Hydroxide 28% Carbon Tetrachloride Chloroform 2) Dichlor Acetic Acid 20 Dioxane Dichlyl Ether Sodium Hydroxide 40% Sodium Hydroxide 40% Sodium Hydroxide 40% Sodium Hydroxide 18ke Ethylacohol Ethylacohol Methylacohol		Rating	0	1	2	3	4	Caladama	Rating	0	1	2	
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²⁾ result on 0085

Test Procedure: The chemical Resistance tests were performed in a SEFA

certified Laboratory according to the

Test Method: SEFA 3-2010 Sec 2.1. (24h EXPOSURE) Detailed Information and results are available in the official Test reports.

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Results: FunderMax Resistance² passed the SEFA 24h Exposure Test and is therefore suitable and recommended for Laboratory

- worktops. FunderMax Resistance 2 exceeds the SEFA test criteria by far with not one single Level 3 or 4 rating.

Rating:

Xylene 1)

- $\bf 0$ $\bf No$ Effect No detectable change in the material surface.
- **1 Excellent** Slight detectable change in color or gloss but no change in function or life of the surface.
- 2 Good A clearly discernible change in color or gloss but no significant impairment of surface life or function.
- **3 Fair** Objectionable change in appearance due to discoloration or etch, possibly resulting in deterioration of function over an extended period of time.
- **4 Failure** Severe staining, deterioration, pitting, cratering or etching. Material is NOT suitable for Laboratory application.

Acceptance Criteria:

Laboratory Grade work surface finishes shall result in no more than 4 Level 3 conditions. And no Level 4 (Failures).



Properties of Max Resistance²

Properties tested in acc. to EN 438-2	Standard requirement	Max Compact Max Resistance²
Physical data		
Apparent density DIN 52350/ISO 1183	≥ 1,35 g/cm ³	≥ 1,4 g/cm ³
Thickness (e.g.) EN 438-2, point 5	mm	10
Weight	kg/m²	14,0
Mechanical properties		
Resistance against stress abrasion EN 438-2, point 10	≥ 350 U	450 U
Falling ball impact resistance EN 438-2, point 21	≤ 10 mm	8 mm
Resistance against scratching EN 438-2, point 25	≥ 3 degr. ≥ 4N	4 degr. 6N
Flexural strength EN ISO 178	≥ 80 MPa	100 MPa
E-Modulus EN ISO 178	≥ 9000 MPa	10000 MPa
Tensile strength EN ISO 527-2	≥ 60 MPa	60 MPa

Properties tested in acc. to EN 438-2	Standard requirement	Max Compact Max Resistance ²
Thermal properties		
Dimensional changes during climatic changes, measured at elevated temperatures EN 438-2, point 17	≤ 0,30 length ≤ 0,60 cross	0,05 length 0,15 cross
Resistance to boiling water EN 438-2, point 12	≤ 2%	0,3%
Coefficient of thermal expansion DIN 52328	1/K	20 x 10 ⁻⁶
Resistance to hot soucepans EN 438-2, point 16	4-5 [Degree]	5 no visible changes, no blisters or cracks ²⁾
Resistance to staining EN 438-2, point 26 (group 1-3)	4-5 [Degree]	5 no visible changes, no blisters or cracks ²⁾
Optical properties		
Light fastness no. EN 438-2, pt. 27	≥ 4 [Level]	4 or 5





FUNDERMAX ®

Max Resistance² Sustainable manufacturing

- FSC
- green electricity
- environmental product declaration



Environmentally friendly production

The kraft paper is impregnated with resin on impregnating lines, dried, and pressed at high pressure into durable, moisture-resistant panels. The exhaust air from the drying process is treated by regenerative thermal oxidation, in which heat produced thereby is redirected back into the process. At the FunderMax manufacturing site, around 10,000 tons of CO₂ can be reduced annually.

Production drop-offs are energetically utilized in our green electricity district heating power stations. FunderMax supplies district heating to over 3000 households.

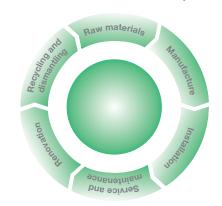






Natural materials

Max Resistance² panels are primarily made of wood that is processed into "kraft paper." The wood accumulates as a byproduct during logging or in sawmills. We procure these raw materials from suppliers who are certified according to the FSC or PEFC standards. These standards confirm that the logging occurs in accordance with internationally valid rules for sustainable forestry.



Available through:

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