RESOPAL® TRACELESS
PRODUCT DATA SHEET

1. Material Description

RESOPAL Traceless is a laminate sheet with fingerprint-resistant, matt, low-reflection, soft-touch surface that is designed for indoor applications. RESOPAL Traceless meets the basic requirements set out in DIN EN 438 part 3, but due to the surface material used, it is not a high-pressure laminate according to DIN EN 438. RESOPAL Traceless is not postformable.

RESOPAL Traceless sheets are not hazardous substances as defined by the Chemicals Act and therefore do not require special labelling or a safety data sheet.

2. Technical Data

Properties	Test method (EN 438-2: 2016)		Unit	HPL
Texture				TL / TS
Density	ISO 1183		g/cm³	1,4
Abrasion resistance	DIN EN 438-2: 10	Abrasion resistance	Initial abrasion point	≥ 150
Resistance to boiling water	DIN EN 438-2: 12	Appearance	Rating	4
Resistance to steam	DIN EN 438-2: 14	Appearance	Rating	4
Resistance to dry heat (160 °C)	DIN EN 438-2: 16	Appearance	Rating	3
Dimensional stability at increased temperatures longitudinally transverse	DIN EN 438-2: 17	Cumulative change in dimension	 % %	 0,45 0,90
Resistance to humid heat (100°C)	DIN EN 438-2: 18	Appearance	Rating	4
Resistance to impact with a small-diameter ball	DIN EN 438-2: 20	Spring force	N Index	≥ 20 3 - 4
Resistance to impact with a large-diameter ball	DIN EN 438-2: 21	Drop height Impress diameter	mm mm	- -
Susceptibility to cracks under stress	DIN EN 438-2: 23	Appearance	Rating	≥ 4
Scratch resistance	DIN EN 438-2: 25 DIN 68861-4	Appearance	Rating	3
Stain resistance Groups 1 and 2: Group 3:	DIN EN 438-2: 26	Appearance	 Rating Rating	 - -
Lightfastness (Xenon arc lamp)	DIN EN 438-2: 27	Contrast	Grey scale (EN 20105-A02)	4 - 5
Level of gloss (reflectometer value 60°)	DIN EN ISO 2813			2 - 5

Rating 5 (no visible change); 4 (change only in level of gloss); 3 (hairline cracking and/or erosion); 2 (surface cracks); 1 (blistering and/or delamination)

3. Transport and Storage

RESOPAL Traceless must be stored in a closed storage area under normal indoor conditions. Sheets must be transported and stored flat, horizontal, with full-surface contact and flush on a sufficiently large pallet, and covered with plastic. Foreign objects and abrasive contaminants in stacks of sheets can lead to indentations and damage to the surface. When loading and unloading, the sheets must not be rubbed against each other or pulled/pushed across another sheet; they are to be lifted individually by hand or using suction lifters. The top sheet must be covered and weighted down. In order to prevent condensation, the stack should not be tightly wrapped with plastic film. These storage conditions must also be maintained whenever a sheet is removed from the stack.

Both textures (TS, TL) are delivered with a protective film for transport.

4. Handling and Machining

Compared to general standard structure, the sheets described here can be machined using tools equipped with carbide due to their surface material. When machining large quantities, the use of diamond tools is recommended.

In addition, the general processing recommendations for RESOPAL HPL regarding storage, machining and treatment are to be observed.

When machining with woodworking machines, chip-free edges can be achieved using the specified tools (see RESOPAL Traceless Machining Guidelines) or equivalent. Using alternative tools may result in a white cut edge, so it is advisable to carry out a test cut before final cutting.

Backing

When manufacturing composite elements with RESOPAL Traceless, particular attention must be given to compensating for tension by including opposite pulling force. For this reason, it is recommended to use identical RESOPAL Traceless material as backing. The fabricator will take the responsibility for the manufacture/use of asymmetrical composite elements. It is advisable to determine the feasibility of the respective application through preliminary tests.

If the front is provided with a protective film, it is absolutely necessary to apply a protective film to the back as well.

Conditioning

HPL (roughened on one side)

Good conditioning can only be achieved in normal indoor conditions (18-25°C with 50-65% relative humidity). In addition:

- adequate air circulation around each panel must be guaranteed for at least 10 days;
- HPL and substrates must be stacked together in the same manner in which they will later be glued for at least three days (relative humidity should be similar to that of the area in which they will later be used); or
- the two HPL sheets which will later be glued to the substrate to form a composite element must be stacked with their rough sides together for at least three days. In this case, conditioning together with the substrate (applies only to wood-based materials) is not necessary, provided it is adequately matured.

5. Available Products

Texture Traceless (TL)	Matte tecture with light structuring, resistant to dirt and fingerprints
Texture Traceless Smooth (TS)	Silky-matte texture with especially soft touch, resistant to dirt and fingerprints
Dimensions (TL + TS)	3650 mm x 1320 mm; 3050 mm x 1320 mm; 2350 x 1320 mm; 2180 x 1020 mm
Thickness	0,6 - 1,2 mm
Decors	All decors from the current RESOPAL Traceless collection / other decors from the current RESOPAL Collection upon request. Please note: TL and TS textures make dark decors in particular appear somewhat lighter.
Protective transport film	The textures (TL / TS) are delivered with a protective film for transport; remove protective film after no more than six months of storage (see point 3 Transport and Storage).
Flammability pursuant to EN 13501-1	D – s2, d0 (normal flammability) C – s2, d0 (low flammability)

6. Care and Maintenance

Lightly soiled sheets can be cleaned with a soft, clean, damp cloth. Heavier soiling can be removed with warm soapy water or a commercially available cleaning agent (leaving the cleaning agent to stand if necessary). Do not use organic cleaning agents containing solvents. Only clean and soft cloths, sponges or brushes should be used.

7. Environmental and Health Aspects During Use

RESOPAL Traceless is a cured and thus inert thermosetting plastics material. The release of formaldehyde from RESOPAL Traceless is well below the statutorily permitted limit for wood materials. RESOPAL Traceless sheets are products and not chemical substances and therefore the REACH ordinance is not applicable. It is, however, important to ensure information is exchanged with raw material suppliers in regards to REACH-relevant components.

8. RESOPAL® Traceless in the Event of Fire

RESOPAL Traceless sheets are difficult to ignite and delay the spread of flames. As with any other organic material, if not completely combusted, the smoke may contain toxic substances.

- No melting or dripping in the event of fire
- No splintering or sudden cracking in the event of fire
- No afterburning or smouldering after direct flame has been removed
- Low production of smoke

The same firefighting techniques can be used for fires involving RESOPAL Traceless as for other building materials containing wood.

9. Energy Recovery

Due to their high energy value (18 - 20 MJ/kg)* RESOPAL Traceless boards are particularly well-suited for thermal recycling. When completely combusted, they burn to water, carbon dioxide and nitrogen oxides at 700°C. RESOPAL Traceless boards therefore meet prerequisites for energy recovery in accordance with §8 of the Recycling Management Act. The conditions for good combustion are met in modern, officially approved industrial incineration facilities. The ashes from these incineration processes can be taken to controlled landfill sites.

10. Disposal

RESOPAL Traceless can be disposed of in controlled landfill sites that comply with current national and / or regional regulations.

11. Certificates | Test Reports | Authorisations

Classification report EN 13501-1 RESOPAL Excellent Traceless