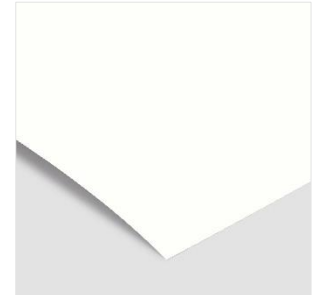


Technical leaflet

EGGER Laminates for whiteboard use



Criteria influencing the use

The resistant and dense surfaces of EGGER laminates are generally suitable for use as whiteboards. Use is influenced by various factors and these should be taken into account when selecting the suitable laminate.

1. Selection of the suitable surface texture

Flat and smooth textures such as **SM** – Semi-Matt, **PG** – Premium Gloss are recommended. The supermatt surfaces **PM** – PerfectSense Premium Matt and **PT** – PerfectSense Topmatt only to a limited degree. More structural textures such as ST2, ST9 and ST15 can be used, but there are limitations associated with these textures.

2. Manufacturer of the pens and pen colour

A wide variety of chalk, whiteboard and glass board markers are available from different manufacturers. The range includes various models and types as well as pen colours.

3. Contact time

The contact time of the writing until it is cleaned varies greatly depending on its use. I.e. the writing can be removed immediately, after a few minutes, a few hours or days later. The cleaning effort and the cleaning result depend to a large extent on the contact time.

4. Cleaning

When it comes to cleaning, the manufacturers of the pens differentiate between "dry cleaning" and "moist cleaning". In addition to these criteria, residue-free cleaning is influenced by the surface texture, laminate decor and the colour of the pen used.

Texture and decor options

The flat and smooth surface textures **SM**, **PG**, **PM** and **PT** in combination with the laminate decors **U999** Black and **W1000** Premium White were tested. The decors were deliberately defined because these two colours are selected in majority for whiteboards or lettering surfaces. The pen colours white and black were tested depending on the decor, i.e. colour-matching combinations of pen colour and decor were not tested. Cleaning was carried out both dry and wet and at a wide variety of intervals. After cleaning, the surface was checked for possible colour residues and glossing. Whiteboard use is associated with residue-free cleaning of the inscription after 24 hours.

The following manufacturers, pens and pen colours were tested.

Manufacturer	Model	Description	Pen colour	Cleaning according to manufacturer
Edding	4095	Kreide – chalk marker	white	moist
Schneider	Maxx 265	Deco marker	white	moist
Uni	PWE-5M	Chalk marker	orange	moist
Securit	SMA510	CHALKMARKER ORIGINAL	black	moist
Securit	SMA510	CHALKMARKER ORIGINAL	white	moist
Securit	SMA510	CHALKMARKER ORIGINAL	red	moist
Edding	250	Whiteboard marker + Flipchart	black	dry
Pelikan	409 F	Whiteboard Marker	black	dry
Sigel	GL 710	Glasboard-Marker	black	dry
Sigel	GL 713	Glasboard-Marker	red	dry
PRO OFFICE	-	Tafelschreiber	black	dry
Pentel	MAXIFLO	White BOARD MARKER	black	not specified

For the different decor/texture combinations, it is noted in the following overviews whether the pen or pen colour is suitable or not. Contrary to the manufacturer’s instructions, we have cleaned all pens and pen colours both dry and moist. Combinations of pen colours and patterns with matching colours were not tested. In the overviews, we have differentiated the results according to:

- **suitable** = no colour residues visible
- **limited suitable** = associated with shining up / higher cleaning effort
- **not suitable** = colour residues visible
- **not tested** = colour match

Dry cleaning – SM and PG

In dry cleaning, 8 pen colours, depending on decor and texture, could be removed without residue after a contact time of 24 hours.

Manufacturer	Model	Pen colour	W1000 SM	W1000 PG	U999 SM	U999 PG
Edding	4095	white	not tested	not tested	limited suitable	suitable
Schneider	Maxx 265	white	not tested	not tested	limited suitable	suitable
Uni	PWE-5M	orange	not tested	not tested	not suitable	not suitable
Securit	SMA510	black	not suitable	limited suitable	not tested	not tested
Securit	SMA510	white	not tested	not tested	limited suitable	limited suitable
Securit	SMA510	red	not suitable	limited suitable	suitable	limited suitable
Edding	250	black	suitable	suitable	not tested	not tested
Pelikan	409 F	black	limited suitable	suitable	not tested	not tested
Sigel	GL 710	black	not suitable	suitable	not tested	not tested
Sigel	GL 713	red	not suitable	suitable	suitable	suitable
PRO OFFICE	-	black	not suitable	limited suitable	not tested	not tested
Pentel	MAXIFLO	black	not suitable	suitable	not tested	not tested

Moist cleaning – SM and PG

With moist cleaning, all 12 pen colours, depending on the decor and texture, could be removed without leaving any residue after an exposure time of 24 hours. The lettering was sprayed with glass cleaner and then cleaned with a cloth. Alternatively, the **EGGER PerfectSense Cleaner** can be used for basic cleaning of the laminate surfaces.

Manufacturer	Model	Pen colour	W1000 SM	W1000 PG	U999 SM	U999 PG
Edding	4095	white	not tested	not tested	limited suitable	suitable
Schneider	Maxx 265	white	not tested	not tested	suitable	suitable
Uni	PWE-5M	orange	not tested	not tested	suitable	suitable
Securit	SMA510	black	suitable	suitable	not tested	not tested
Securit	SMA510	white	not tested	not tested	suitable	suitable
Securit	SMA510	red	suitable	suitable	suitable	suitable
Edding	250	black	suitable	suitable	not tested	not tested
Pelikan	409 F	black	suitable	suitable	not tested	not tested
Sigel	GL 710	black	suitable	suitable	not tested	not tested
Sigel	GL 713	red	suitable	suitable	suitable	suitable
PRO OFFICE	-	black	suitable	suitable	not tested	not tested
Pentel	MAXIFLO	black	suitable	suitable	not tested	not tested

Dry cleaning – PM and PT

In dry cleaning, no pen colour, depending on decor and texture, could be removed without residue after a contact time of 24 hours.

Manufacturer	Model	Pen colour	W1000 PM	W1000 PT	U999 PM	U999 PT
Edding	4095	white	not tested	not tested	not suitable	not suitable
Schneider	Maxx 265	white	not tested	not tested	not suitable	not suitable
Uni	PWE-5M	orange	not tested	not tested	not suitable	not suitable
Securit	SMA510	black	not suitable	not suitable	not tested	not tested
Securit	SMA510	white	not tested	not tested	not suitable	not suitable
Securit	SMA510	red	not suitable	not suitable	not suitable	not suitable
Edding	250	black	not suitable	not suitable	not tested	not tested
Pelikan	409 F	black	not suitable	not suitable	not tested	not tested
Sigel	GL 710	black	not suitable	not suitable	not tested	not tested
Sigel	GL 713	red	not suitable	not suitable	not suitable	not suitable
PRO OFFICE	-	black	not suitable	not suitable	not tested	not tested
Pentel	MAXIFLO	black	not suitable	not suitable	not tested	not tested

Moist cleaning – PM and PT

With moist cleaning, 4 pen colours, depending on the decor and texture, could be removed without leaving any residue after an exposure time of 24 hours.

Manufacturer	Model	Pen colour	W1000 PM	W1000 PT	U999 PM	U999 PT
Edding	4095	white	not tested	not tested	suitable	suitable
Schneider	Maxx 265	white	not tested	not tested	suitable	suitable
Uni	PWE-5M	orange	not tested	not tested	not suitable	not suitable
Securit	SMA510	black	not suitable	not suitable	not tested	not tested
Securit	SMA510	white	not tested	not tested	suitable	suitable
Securit	SMA510	red	not suitable	not suitable	suitable	suitable
Edding	250	black	not suitable	not suitable	not tested	not tested
Pelikan	409 F	black	not suitable	not suitable	not tested	not tested
Sigel	GL 710	black	not suitable	not suitable	not tested	not tested
Sigel	GL 713	red	not suitable	not suitable	limited suitable	limited suitable
PRO OFFICE	-	black	not suitable	not suitable	not tested	not tested
Pentel	MAXIFLO	black	not suitable	not suitable	not tested	not tested

Under the same conditions as for SM, PG, PM and PT, the textures ST2, ST9 and ST15 were tested in combination with the laminate decors U999 Black and W1000 Premium White.

Dry and moist cleaning ST2 – Smoothtouch Pearl

After dry cleaning, 2 pen colours could be removed, and after moist cleaning, 9 pen colours could be removed without leaving any residue after a reaction time of 24 hours.

Manufacturer	Model	Pen colour	W1000 ST2 – dry	U999 ST2 – dry	W1000 ST2 – moist	U999 ST2 – moist
Edding	4095	white	not tested	suitable	not tested	suitable
Schneider	Maxx 265	white	not tested	suitable	not tested	suitable
Uni	PWE-5M	orange	not tested	not suitable	not tested	suitable
Securit	SMA510	black	not suitable	not tested	limited suitable	not tested
Securit	SMA510	white	not tested	not suitable	not tested	suitable
Securit	SMA510	red	not suitable	not suitable	not suitable	suitable
Edding	250	black	not suitable	not tested	limited suitable	not tested
Pelikan	409 F	black	not suitable	not tested	not suitable	not tested
Sigel	GL 710	black	not suitable	not tested	suitable	not tested
Sigel	GL 713	red	not suitable	limited suitable	suitable	suitable
PRO OFFICE	-	black	not suitable	not tested	suitable	not tested
Pentel	MAXIFLO	black	not suitable	not tested	suitable	not tested

Dry and moist cleaning ST9 – Smoothtouch Matt

After dry cleaning, no pen colour could be removed, and after moist cleaning, 5 pen colours could be removed without leaving any residue after a reaction time of 24 hours.

Manufacturer	Model	Pen colour	W1000 ST9 – dry	U999 ST9 – dry	W1000 ST9 – moist	U999 ST9 – moist
Edding	4095	white	not tested	limited suitable	not tested	suitable
Schneider	Maxx 265	white	not tested	limited suitable	not tested	limited suitable
Uni	PWE-5M	orange	not tested	not suitable	not tested	limited suitable
Securit	SMA510	black	not suitable	not tested	not suitable	not tested
Securit	SMA510	white	not tested	not suitable	not suitable	suitable
Securit	SMA510	red	not suitable	not suitable	not suitable	suitable
Edding	250	black	not suitable	not tested	not suitable	not tested
Pelikan	409 F	black	not suitable	not tested	not suitable	not tested
Sigel	GL 710	black	not suitable	not tested	limited suitable	not tested
Sigel	GL 713	red	not suitable	limited suitable	suitable	limited suitable
PRO OFFICE	-	black	not suitable	not tested	suitable	not suitable
Pentel	MAXIFLO	black	not suitable	not tested	not suitable	not suitable

Dry and moist cleaning ST15 – Smoothtouch Velvet

After dry cleaning, 3 pen colours could be removed, and after moist cleaning, 10 pen colours could be removed without leaving any residue after a reaction time of 24 hours.

Manufacturer	Model	Pen colour	W1000 ST15 – dry	U999 ST15 – dry	W1000 ST15 – moist	U999 ST15 – moist
Edding	4095	white	not tested	limited suitable	not tested	limited suitable
Schneider	Maxx 265	white	not tested	limited suitable	not tested	limited suitable
Uni	PWE-5M	orange	not tested	not suitable	not tested	suitable
Securit	SMA510	black	not tested	not tested	suitable	not tested
Securit	SMA510	white	not tested	limited suitable	not tested	suitable
Securit	SMA510	red	not suitable	suitable	not suitable	suitable
Edding	250	black	suitable	not tested	suitable	not tested
Pelikan	409 F	black	not suitable	not tested	suitable	not tested
Sigel	GL 710	black	not suitable	not tested	suitable	not tested
Sigel	GL 713	red	suitable	limited suitable	suitable	suitable
PRO OFFICE	-	black	not suitable	not tested	suitable	not tested
Pentel	MAXIFLO	black	not suitable	not tested	suitable	not tested

Care and cleaning recommendation

Do not use sanitary cleaners or detergents with abrasive components, as using such cleaners may lead to changes in the degree of gloss and/or scratch the material.

For detailed information, please refer to the leaflet "Cleaning and care recommendations for EGGER product surfaces".

Additional documents / Product information

You will find further information in the following documents:

- Processing Instructions "EGGER Laminates"
- Technical leaflet "Resistance to chemicals EGGER Laminates"
- Technical leaflet "EGGER Laminates with Protective Film"
- Technical leaflet "Cleaning and care recommendations for EGGER product surfaces"

Provisional note:

This technical leaflet has been carefully drawn up to the best of our knowledge. The information provided is based on practical experience, in-house testing and reflects our current level of knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or its suitability for specific applications. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical modifications may result from the continuous development of EGGER Laminates, as well as from changes to standards and public law documents. The contents of this technical leaflet should therefore not be considered as instructions for use or as legally binding. Our General Terms and Conditions apply.