

PRODUCT CLASS

CPL plastic laminate.

DESCRIPTION

Silk Touch laminate is obtained by laminating a special acrylic coating over a melamine impregnated décor surface joint with various layers of Kraft impregnated paper as a support, according to the required thickness.

Thanks to acrylic coating Silk Touch laminate acquire extraordinary properties such as:

Anti-fingerprint, high scratch resistance, light fastness, no bacterial proliferation, high resistance to solvents and chemical reagents.

Small traces of grease can be eliminated very easily thanks to the oleophobic properties of Silk Touch laminate

These technical features, joined with its Soft and Supermatt surfaces and the possibility to create any kind of décor shades or printed designs (Woods, Stones, Fancy) make Silk Touch laminate an up-to-date product destined to revolutionize the world of interior design becoming a reference for architects and designer.

Last but not least, Silk Touch laminate is a Phenol Free product, an additional choice for environment protections and consumers health confirming Neodecortech spa commitment toward the green chemistry.

ADVANTAGES

- Possibility to produce any kind of décor laminate applying this special coating on the melamine décor surface during the lamination process.
- Surface with higher chemical and mechanical resistance.
- Applicability with all kind of plants used in the lamination business (however the customer is recommended to test in advance).

APPLICATIONS

Silk Touch laminate is a product particularly suitable for coating vertical and in some conditions also horizontal surfaces.

It could be produced also in Postforming quality.

Supports:

Chipboard, MDF and Plywood are particularly suitable surfaces because, like Silk Touch they are cellulose based and therefore have similar dimensional swelling.

Bonding:

Silk Touch Laminate can be glued to these surfaces, mainly through:

- Thermoplastics: PVAc - Polyvinyl acetate (especially in industrial bonding), Neoprene, Hot Melt;
- Thermosetting agents: Urea-formaldehyde, PUR, resorcinol or epoxy resin.

Before bonding, both laminates and substrates must be cleaned and free from any traces of dust, grease, particles or other impurities that could cause defects, bubbles or stains on the surface of the finished panel.

Pre-conditioning the laminate at the temperature and humidity conditions of the place where the gluing process will be performed. However, it is not advisable to paste the laminate if the temperature is <15 ° C.

Gluing process with cold presses:

A limited pressure of 2-5 kg / cm² on the surface of the panel is applied. The laminate bonding times are long enough to allow the glue to complete its hardening cycle. Ex: PVAc D3 (waterproof) 40-60 min + 20 ° C.

Gluing process with hot presses:

Typically, a pressure of 2-5 kg / cm² and a temperature of 40-60 ° C is applied.

The laminate bonding times are shorter in the order of a few minutes.

Ex.: PVAc D3 (waterproof) 12 - 25 min + 40 ° C; 6 - 15 min + 60 ° C.

However, the panels should be cooled before proceeding with the cutting work.

These indications are provided for general information purposes.

It is the responsibility of the user to find the most appropriate process conditions.

Therefore, a preventive test is recommended, regardless of the type of glue and pressing plant used.

If in the backside it is not used a Silk Touch laminate but a standard melamine laminate or another product, preventive tests are compulsory for testing and verifying the flatness of the finished panel.

The product is suitable for all common use in interior design.

Silk Touch in the MED version is suitable for naval use. It is certified by LAPI S.p.A; certificates 0987 / MED-B / 546 (module B) and 0987 / MED-D/ 466 (module D).

SIZES

Supplied in sheets of size: length 1.300 mm and width up to max 5.100 mm.

TECHNICAL CHARACTERISTICS

The technical characteristics are shown up in the table n° 1.

PACKAGING AND STORAGE

Silk Touch laminate is supplied in sheets on pallets, which are wrapped with polyethylene and a shock-proof packaging. The stability of the laminate is assured for twelve months, if kept in its original packaging and in proper environmental conditions (temperature 10 – 25°C and relative humidity 50 – 60 %).

NOTES

The information contained in this document is based on our current knowledge and experience. However, it cannot be considered exhaustive, but purely indicative. It is recommended to test the products at your premises in advance and to report any non-conformities before proceeding with the production. Neodecortech S.p.A. cannot be considered liable for any damage deriving from the use of the abovementioned product.

TECHNICAL DATA

Silk Touch laminate

TECHNICAL PARAMETERS ⁽¹⁾				
PROPERTIES		Test method	Unit/class/level	Value
1	Thickness tolerance	Acc. EN 438-2 / 16 § 5	mm	±0,10 mm for thickness 0,5 ≤ t ≤ 1,0 ±0,15 mm for thickness 1,0 < t ≤ 1,0
2	Light resistance	Acc. EN 438-2/16 § 27	grey wool scale	4
3	Stains resistance	Acc. EN 438-2/16 § 26	class	≥ 4
4	Scratch resistance	Acc. EN 438-2/16 § 25	class	≥ 4
5	Abrasion resistance	Acc. EN 438-2/16 § 10	WR cycles	200
6	Steam resistance	Acc. EN 438-2/16 § 14	class	5
7	Dry heat resistance (160 °c)	Acc. EN 438-2 / 16 § 16	class	≥ 4
8	Wet heat resistance (100 °c)	Acc. EN 438-2/16 § 18	class	≥ 4
8	Crash resistance to small diameter ball	Acc. EN 438-2/16 § 20	N	28
9	Crash resistance to small diameter ball ⁽²⁾	Acc. EN 438-2/16 § 21	mm	9,3
10	Formaldehyde emission	Acc. ISO 12460-3:2015	mg/m ² x h	0,3

⁽¹⁾ The checked data applying the methods established by the regulation UNI EN 438-2 can be different from the minimum requisites set by UNI en 438-3 for HPL laminates;

⁽²⁾ Height fall of the ball = 1000 mm