

CALA
INTERIOR FILM

TECHNICAL MANUAL

antalis TM

Technical Manual.

TECHNICAL MANUAL

SUMMARY.

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GENERAL PRODUCT PERFORMANCE

CE MARK

EN15102: 2007+A1:2011 Decorative wall covering

DIMENSIONAL STABILITY

50° for 24h with 65% humidity
= 0,25mm

REACH

Compliant*

VOC

A+*

ALDEHYDES EMISSION

Pass*

EUROCLASS 13501-1

Consult Product Data Sheet for further information

IMO - MED MODUL B/E

Compliant*

RAIL

Compliant*

ANTIBACTERIAL

Compliant* to JIS Z 2081 am. 1 (2012)

SPONGEABILITY

No visible change*

WASHABILITY

Extra-washable*

*May vary by product. Refer to the Product Data Sheet for further information.

ENVIRONMENTAL PRODUCT DECLARATION

Our PVC Interior Film products comes with an Environmental Product Declaration (EPD). This declaration highlights our commitment to providing transparent and verified information about the environmental impact of our product throughout its life cycle. With the EPD, you can be assured that we prioritize sustainability and eco-consciousness processes, ensuring a greener choice for your needs.



- ▶ ADP : 1.72E-02 kg Sb-eq./m²
- ▶ AP : 9.35E-03 kg SO₂-eq./m²
- ▶ GWP : 1.69E+00 kg CO₂-eq./m²
- ▶ EP : 4.81E-03 kg PO₄³⁻-eq./m²
- ▶ ODP : 8.94E-06 kg CFC-11-eq./m²
- ▶ POCP : 1.56E-03 kg C₂H₄-eq./m²
- ▶ WF : 1.71E-01 m³ H₂O-eq./m²

*This assessment may vary by product.

TESTS AND CERTIFICATIONS

CE MARK



CE marking to wallcovering indicate the products comply with not only Construction Products Regulation CPR 305/2011/EU, but also essential requirement of Harmonized Standard EN 15102.

EN 15102 Clause 4.1: Reaction to fire according to EN 13501-1.

EN 15102 Clause 4.2: Release of formaldehyde according to EN 12149.

EN 15102 Clause 4.3.1: Heavy metal according to EN 12149.

EN 15102 Clause 4.3.2: Release of VCM (Vinyl Chloride Monomer) according to EN 12149.

VOC - REACH



VOC tests are employed to evaluate indoor air quality and assess the potential health risks associated with the emission of VOCs from building materials, furnishings, and consumer products.

EN16516

Result: Class A+

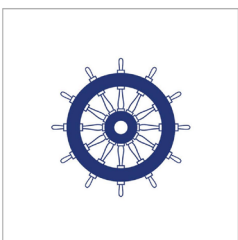
ISO 16000 part 3

Result: Pass

REACH SVHC

Result: do not contain any specific element or substance on the REACH candidate list of 16-01-2020 (substance of very high concern)

IMO CERTIFICATION



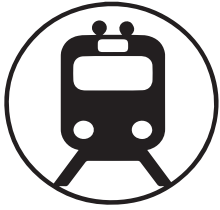
The majority of our product have the «wheel mark» pictogram. The «wheel mark» is a symbol used to indicate that a product has undergone relevant testing and certification for marine use, as required by the International Maritime Organization (IMO).

IMO

MODULE B

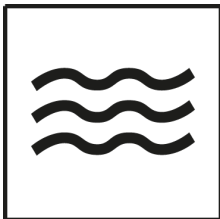
MODULE E

TRAIN CERTIFICATION



Our PVC Interior Film products have successfully passed the EN 45545-2 certification, achieving Hazard Levels HL1 and HL2, as well as the R1 classification. Achieving these levels and classification confirms our commitment to safety and quality, ensuring that our films comply with the stringent fire protection standards required for railway applications.

SPONGEABILITY AND WASHABILITY*



Our interior films are tested to be used in areas where water resistance is required. Most of our products are recognized to be extra washable.

ISO 12956 – Spongeability and Washability

ISO 105-X12 (2016) - Color fastness to rubbing

ISO 9073-6 (2000) - Liquid wicking rate

EN12956 (1999) + A1 (2001) - Scrubability

ISO 105-E01 (2013) - Color fastness to water

ISO 18168 (2015) - Color fastness to shampooing

ANTIBACTERIAL PROPERTIES*

Our interior films have passed the most common standard for antimicrobial hard surface performance. This achievement demonstrates our commitment to delivering products of the highest quality, ensuring that our customers benefit from product with superior antimicrobial properties in their living and working spaces.

JIS Z 2081 - am. 1 (2012)

RESISTANCE TO STAINS (TCHIBO)*

MAYONNAISE	No change
MUSTARD	No change
KETCHUP	No change
HOT COFFEE	No change
RED WINE	No change
CHOCOLATE	No change
TEA	No change
MILK	No change

Size of the stain 2-3cm - Reaction time 30 minute, then dab with tissue - leave for 24 hours - One time rinsing 40° - Color assessment by gray scale.

The above tests results apply to standard constructions such as solid color and printed woods, marbles, and textile patterns.

Constructions like Natural Prestige, Cork, Prestige, Glitter, High-Resistant, Polypropylene, and Exterior may yield different results.

For further information, refer to the Product Data Sheet for each reference or contact us.

SURFACE COMPATIBILITY

Surface preparation prior to installation and usage of primer are important to ensure adequate adhesion on the substrates, especially when applying on low energy surfaces. An adhesion test is recommended to ensure the compatibility with the adhesive. As a guideline:

	PRIMER+	PRIMER PRO	PRIMER	PRIMER HIGH-TACK
ITEM REFERENCE	600-PMR1000	PMR-1000-PRO	600-P1000	600-P1000N
TYPE	SOLVENT	ALCOHOL	WATER	WATER
CAPACITY (in SQM)	30-40	30-40	25	50
DILUTION	NO	NO	NO	YES
DRYING PERIOD (in min)	15-20'	2'	60'	60-120'
ODOR	HIGH	AVERAGE	LOW	LOW
ECO-FRIENDLY	BAD			
ADHESION	+	+++	+	+++
COMPATIBILITY	SOLID	SOLID	ABSORBENT	ABSORBENT
TOXIC	YES	NO	NO	NO
PRICE LEVEL				
VOLUME	NO	1LT	1LT	1LT
OTHER FORMAT	25CL	25CL	-	3L
APPLICATION METHOD	PRIMER STICK	PRIMER STICK*	SPONGE ROLLER	SPONGE ROLLER
ANDREA'S CHOICE	-		-	

PP products do not require the use of solvent- or alcohol-based primers on hard, non-absorbent surfaces, only on overlaps between the products.

TYPE OF SUBSTRATE	WATER BASE PRIMER		SOLVENT BASE PRIMER	ISO BASE PRIMER
	High-Tack Bond (600-P3000 or 600-P1000N)	Primer (600-P1000)	Primer+ (600-PMR250 or 600-PMR1000)	Primer Pro (PMR-1000-PRO or PMR-250-PRO)
Plasterboard	●	●		
Painted Plasterboard			●	●
Calcium board	●	●		
Stainless steel			●	●
Galvanized steel				●
Aluminium			●	●
Anodized Aluminium*				●
ABS			●	●
Acrylic			●	●
PETg			●	●
PP			●	●
Polycarbonate**			●	●
Melamine			●	●
MDF	●	●		
Painted MDF			●	●
Plywood	●	●		
Powder paint				●
Sealed concrete			●	●
Sealed marble			●	●
Unsealed concrete	●	●		
Unsealed marble	●	●		

*Adhesion test is recommended. Applying Primer PRO (PMR-1000-PRO or PMR-250-PRO) on the complete surface may help to improve adhesion.

**Ensure that plastic materials such as PMMA are degassed to prevent the appearance of bubbles.

INSTALLATION GUIDELINES

1. PRIOR TO INSTALLATION

INSPECTION OF THE PRODUCT

Before installing the product, we recommend to thoroughly inspect it. Should imperfections be found, contact us. Slight color variations could be found between different manufacturing batches. When ordering multiple rolls of the same reference for one project, or when a repair is needed, please specify the original lot number when ordering. Always consider ordering additional linear meters to ensure successful future repairs.

ENVIRONMENT

Ensure the substrate on which the product will be installed is clean and dry. Prepare the installation environment by ensuring it is clean and dust-free.

STORAGE

To ensure optimal installation conditions, store the material in an environment between 16°C and 25°C.

ADHESION TEST

An adhesion test should be performed to ensure the compatibility with the adhesive.

SURFACE PREPARATION

Surfaces that are not smooth have the potential to transfer their texture and imperfections to the applied film, particularly when applying non-textured film. For optimal results, ensure that the surface is smooth. Prior to installation, prepare the surface by thoroughly cleaning it with appropriate products designed for self-adhesive film applications. The presence of dirt, grease, oils, or dust residues can negatively impact adhesion.

For absorbent surfaces like plaster, wood, or wall paint, it is advisable to exclusively use a sticky cloth (Sott 300-022) for cleaning. When liquid cleaning is necessary, opt for an IPA solution consisting of 70% isopropyl alcohol and 30% water, testing in a hidden area before full-scale use.

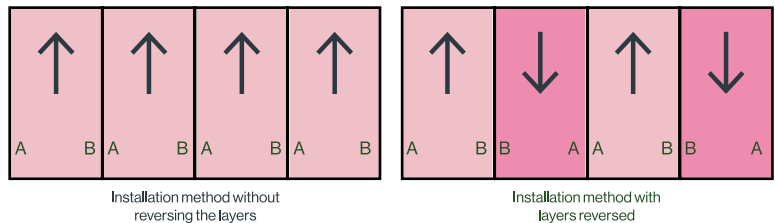
Use primers, particularly when dealing with low-energy surfaces, to prevent any adhesion issues with the substrates.

INSTALLATION GUIDELINES

2. DURING INSTALLATION

INSTALLATION METHOD

Dry method. Do not use liquid or water when installing the product. When performing a panelling wall installation, refer to the Product Data Sheet for further information on installation and patterns, such as ABAB or ABBA.



TEMPERATURE AND HUMIDITY

To ensure a successful installation, ensure adequate environment conditions. The ambient temperature during installation must be between 12°C and 38°C. Humidity levels should not surpass 50%, the substrate must remain dry and with a moisture level below 10%.

For exterior film, the installation temperature must be between 10°C and 35°C, with an optimal range of 15°C to 30°C.

STRETCHABILITY

Most films can be thermo-stretched for 2D or 3D installation. Refer to the Product Data Sheets for more information, as some films, such as Cork Prestige, Silk Prestige, Brushed Prestige, Glitter, PP Film, and Exterior film, cannot or should not be stretched.

BUTT JOINS

To achieve the best results, it is recommended to apply a thin strip of paint that matches the selected product's color to the substrate. This step helps prevent the original substrate color from becoming visible in the event of any shrinkage.

Alternatively, avoid the potential shrinkage by pre-warming the product before making the butt-to-butt cut to reduce the risk of shrinkage after the butt joint is made. It's important to note that this technique requires a moderate to high level of installation skill and may not be suitable for all products.

OVERLAP

When working on overlapping sections, apply heat to the area and apply pressure to ensure proper adhesion. When installing textured material or PP products use a solvent or ISO-based primer between the layers to enhance adhesion at the overlap point.

USAGE OF BACKING PAPER CUTTER

When installing products that have deep embossing, refrain from using a backing paper cutter except when performing butt joints. The use of a backing paper cutter can potentially cause the adhesive to move, leaving behind a visible line after the installation.

INSTALLATION GUIDELINES

3. AFTER INSTALLATION

FINISHES

The installer must thoroughly inspect their work after completion of a project to preempt any potential future issues and to ensure the quality of the installation.

Always verify that the installation was executed with the correct pressure to guarantee full adhesion to the substrate. When overlapping, particularly in areas like the edges of doors and furniture or curved surfaces, always ensure that the upper layer is completely adhered to the lower one. Applying heat to these areas can be particularly helpful to ensure proper adhesion.

SEALING

When installing in frequently humid or wet environments, use silicone to seal the perimeter. MS polymer is recommended as it adheres well to PVC products. For Exterior films, sealing the area of installation will ensure longevity over the years. See our External guidelines for more informations.

EXPOSURE TO HEAT

Coala Interior Film demonstrates outstanding heat resistance; however, it should not be exposed to temperatures exceeding 100/110°C. Please note that materials such as Natural Prestige and Cork may exhibit lower heat resistance due to their specific construction.

CARE AND MAINTENANCE

For daily care, use a mild soap or pH-neutral detergent to clean the film's surface. Avoid using products with extremely acidic or basic pH levels, as they can harm the material. When cleaning the film surface, only use soft cloths or sponges to prevent any damage.

For stubborn stains, apply hot water (not boiling) to the affected area. If necessary, use a solution of 70% isopropyl alcohol, 30% water for cleaning. However, refrain from using this solution on printed film surfaces.

For sanitizing, use only isopropyl alcohol-based products like Isopropyl Alcohol Wipes (not for daily use). Avoid organic-based cleaners like ammonia or polish, as they can damage vinyl. Test any cleaning detergents, bactericides, or virucidal products on a hidden area first to ensure compatibility.

For Cork Prestige references, minimal cleaning and care are required due to their natural resistance to dust and dirt. Use a brush with gentle bristles to clean. In case of wet or damp stains, use an absorbent cloth to wipe away the moisture and promptly and thoroughly dry the affected area.

These recommendations will maintain the film's appearance and extend its lifespan. Persistent stains may indicate inadequate care, in which wcase, consider using a patch repair method (not guaranteed but effective and economical) or replacing the entire vinyl.

For care and maintenance of Exterior films refer to the technical manual.

INSTALLATION GUIDELINES

4. IMPORTANT INFORMATION

CORK

(WI01 – WI02):

This product is crafted through a special process. There could be small portions of cork bark missing. This is a characteristic of the product and should not be regarded as a defect.

This product is intended for use on flat surfaces and should not be stretched. Stretching can lead to shrinkage, although the product itself remains flexible.

During installing, do not roll the sheets too tightly, as excessive pressure may result in cracking of the cork bark. Precutting the material to the correct size can help avoid issues due to the product's rigidity and thickness.

Adhesion at overlap points may not be as robust as with other products. It is recommended to use a primer on the overlap area, and for added precaution, consider sealing the overlap, especially on edges, after installation.

SILK PRESTIGE

(NH02 – NH05 –
NH06 – NH08):

This product features an anti-fingerprint coating, which enhances its quality, appearance, and performance. Due to this unique coating, the product should not be stretched.

To ensure adherence at overlap points, the use of a primer is mandatory. However, note that using a solvent-based primer will lead to failure on overlap areas.

FOR THESE SILK PRESTIGE REFERENCES, THE USE OF AN ISO-BASED PRIMER (PMR-1000-PRO OR PMR-250-PRO) IS MANDATORY TO ENSURE INSTALLATION LONGEVITY AND FOR WARRANTY PURPOSES.

⚠ DO NOT USE PRIMER+ FOR OVERLAYS WITH THESE REFERENCES, AS IT PREVENTS THE PRODUCT FROM ADHERING PROPERLY

AURORA PRESTIGE + BRUSHED PRESTIGE

(AU01 – AU02
+ KI01):

With their metallic finishes, these products offer exceptional visual effects when applied to surfaces. Achieving the best results with these products hinges on thorough cleaning and preparation, as well as the maintenance of a pristine environment. If the conditions do not allow for a clean environment, it is advisable to refrain from installing these references.

When applying the film to edges, such as the sides of a door, use heat to warm up the film. This encourages better adhesion and enhances the material's flexibility, preventing the formation of bubbles.

When installing AU01 & AU02, use a softer felt pad to avoid scratching the film during application.

Exercise caution during removal. When detaching the product from the surface for any reason, such as dust removal or addressing wrinkles, handle it with care as it may leave lines or marks that cannot be removed.

To prevent bubbles from forming on edges, such as when folding the product around the side of a kitchen door, warm the product slightly to increase its flexibility. This precautionary step will help prevent the appearance of bubbles after installation.

GLITTER PET
(R5 TO R19):

Due to the special texture of this film, do not overlap. Butt joins (head to head) installation is advisable for this product.

PVC-FREE
(polypropylene):

The product has a high tack adhesive, and no primer is needed on hard surfaces, except possibly Primer PRO on overlaps to achieve proper adhesion.

1. The product is thinner than classical PVC, which is why it is important to check the level of preparation before installation to prevent visible remaining defects. Any differences in surface color could lead to color differences in some areas once the film is applied.
2. Given the structure of the adhesive, during removal phase, any traces of adhesive may remain on the original surface.
3. For applications where the material is to be folded over edges, the product should be heated and kept at constant temperature during the folding phase. This will prevent the appearance of air channels along the edge.
4. Stretching the product or stressing it to too high heat exposures during and after the installation could lead to cracking.

EXTERIOR
(PMMA - PVDF
-PVC):

Exterior film is specifically designed for use on building facades, claddings, panels, and window frames.

it is recommended for smooth substrates with high-energy surfaces such as:

- 1.** ACP panel
- 2.** Anodized or powder-coated aluminum
- 3.** Steel
- 4.** HPL
- 5.** PVC/plastic

Although the film is suitable for a variety of substrates, it is not recommended for low-energy surfaces (untreated wood, poorly adhered paint, mineral boards/panels, cement, concrete, mortar, real stone, waterproof painted wall) or rough and porous surfaces.

CLEANING

The cleaning process is crucial for outdoor installations. Ensure you remove dirt and debris, treat organic contamination, and eliminate any residue before degreasing the surface for film installation.

ADHESION TEST & PRIMERS

After cleaning and preparing the surface, it's crucial to verify whether the necessary bonding can be achieved before proceeding with the application. Perform an adhesion test using «Dyne Pens» or a surface adhesion test kit (peel test).

Using a primer on the surface is mandatory to ensure proper adhesion of the film. Conduct an adhesion test to determine the most suitable primer for application. The primer should be applied to the perimeter of the surface. Where possible, avoid overlaps between sheets by using head-to-head cuts.

For overlaps, Primer+ is especially recommended for the Advanced range due to the presence of a protective PVDF coating.

PRECAUTIONS

When working outdoors, it's important to take certain precautions, particularly regarding:

1. Securing the work area and using any necessary lifting platforms.
2. The installation temperature must be between 10°C and 35°C, with an optimal range of 15°C to 30°C.
3. Applying for any necessary permits.

WARRANTY + CARE & MAINTENANCE

Surfaces, whether existing, new, or renovated, are often affected by various contaminants such as dust, silicon, grease, paint stains, glue residues, and welding spots. These contaminants can compromise the bonding of the film, necessitating thorough cleaning and assessment before application. It is also important to check for any corrosion or damage to existing surfaces and address these issues before installation.

⚠ The warranty or more information on warranty, durability, care, and maintenance, please refer to our Exterior Guidelines.

HIGH RESISTANCE (PVC):

The product is dedicated to Kitchen worktop, counters and area where higher resistance to scratch & impact is required.

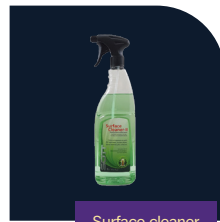
Installation tips:

1. Pre-cut the material in case of areas where it is difficult to cut or apply. For example in the case of a kitchen countertop, on the areas close to the backsplash.
2. The material, despite its thickness remains conformable as the standard version (not gloss finishing such HR-J4 / HR-J5).
3. In the case of a table with 90° corners, thermoforming is recommended instead of a cut with overlapping on the corners, as overlaps may be visible given the thickness of the product.
4. In the case you proceed with cut and overlap technique, to remove any visible white edge once the second side is laid, use Sott's Corner Selaler tool (400-CS01). This will help hide any visible white line on overlap.
5. Cuts on any edges or corners may be difficult given the thickness of the product. Do a test run before the actual job so you can figure out the best technique to use during the cutting and trimming process.

INSTALLATION GUIDELINES

5. RECOMMENDED TOOLS

LIQUIDS & PRIMERS



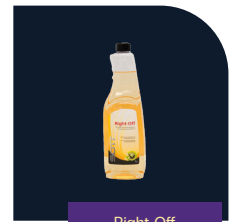
Surface cleaner



Industrial Degreaser



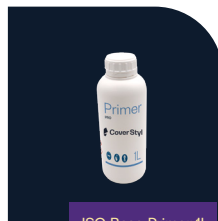
Silicon Wax Remover



Right-Off



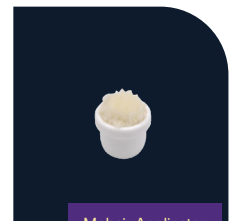
High Tack Bond Primer 3l



ISO Base Primer 1l



Primer Stick 40ml (empty)

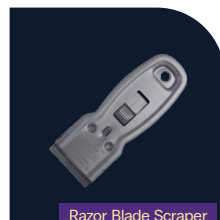


Mohair Applicator



Mastic

SCRAPERS & CLEANING



Razor Blade Scraper - Metal Body



Triumph MKIII



Tack Cloth Dust - Fix 10 packs



SOTT Premium Microfiber Cloth

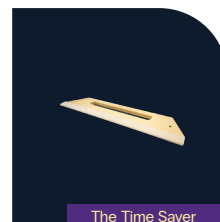
SQUEEGEE & MORE



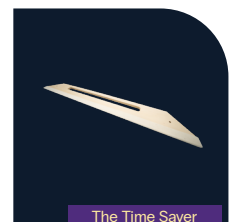
Squeegee



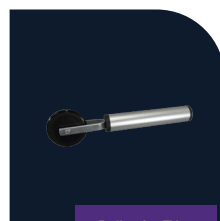
Felt Pad



The Time Saver 65cm



The Time Saver 100cm



Roller for Tiles



Sott Roller - Heavy Duty

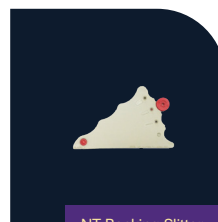
CUTTERS & MORE



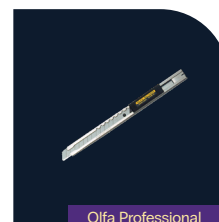
Cutting Matt
Green



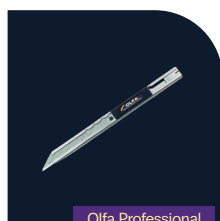
Sott Backing
(Paperliner) cutter



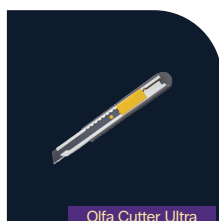
NT Backing Slitter



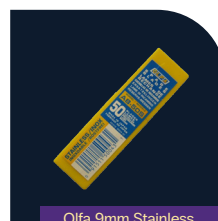
Olfa Professional
Cutter



Olfa Professional
Cutter 30°



Olfa Cutter Ultra
Sharp



Olfa 9mm Stainless
Steel Snap-off Blades



Olfa 30° Snap-off
Graphics Blades



Olfa Excel Black
Ultra Sharp 12.5mm

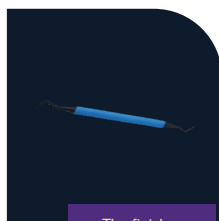


The Yellow 5
cutting ruler

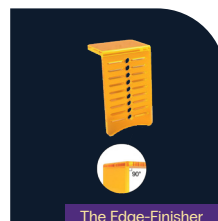
FINISHING & MORE



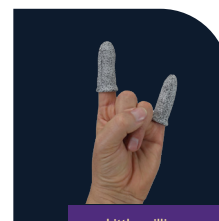
Steinel Heat
Gun Expert



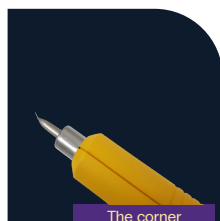
The finisher



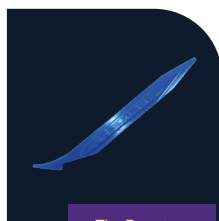
The Edge-Finisher
90°



Little willies



The corner
Sealer



The Factotum



3m Edge Sealer

CUTTING - PRINTING - REMOVAL

PLOTTER AND PRINTING PROCESS

Both processes can be used with our interior films:

- Plotting/cutting: Refer to the Product Data Sheet to determine the thickness of the product you are cutting. The downforce to cut should be set by testing prior to cutting final project.
- Printing: Eco-solvent, Solvent, Latex, and UV printing methods are suitable. However, Latex and UV methods are recommended.

Users are advised to conduct tests and validate their work, particularly in terms of installation area and durability. We do not offer a warranty for plotting or printing processes.

REMOVAL

Removal of the product can be carried out at any time; using a heat gun at a temperature of approximately 80° to 100° can facilitate the removal process.

Consider that depending on the type of substrate involved, the surface could sustain damage during removal. For instance, substrates like walls, raw wood, and plaster may react differently.

When removing from High-Pressure Laminate (HPL), avoid applying excessive heat, as this could lead to the delamination of the HPL from the raw wood.

PP and PET films may leave adhesive residue during the removal process. In case of temporary installation, it is advisable to use a spy layer that adheres to the substrate, preventing the PET and PP adhesive from sticking to the surface. This layer can be applied before installing PET or PP products or integrated into during the calendering process to facilitate a seamless installation experience.

Exterior films are designed for permanent installation, and removal may be difficult or not possible. For further information, refer to the External guidelines or contact us.

SHELF LIFE - STORAGE & MORE

- | | |
|--|--------------|
| 1. PVC: | 2 - 4 years* |
| 2. PP (polypropylene) / PET (glitter): | 1 - 2 years* |
| 3. Exterior: | 1 - 2 years* |

from the from the shipping date*.

+5°C to +30°C, stable temperature in the original box protected by sunlight, in a clean and dry area.

Due to the weight of the roll, store film inside its original packaging with roll caps, to avoid lines or defects from appearing.

Store horizontally with box caps in original packaging, with a maximum stack of six boxes.

*The shelf life is an estimate, subject to influence from external and uncontrollable factors, particularly if storage conditions are respected.

HEALTH AND SAFETY

For information on health, safety, and the environment consult the Safety Data Sheets (SDS).

TECHNICAL INFORMATION

The technical information and data contained in this TDS are based on testing and findings and the accuracy of this information is not guaranteed.

COALA
INTERIOR FILM



www.antalıs.com - coala@antalıs.com



WE ARE
INTERIOR
DESIGN
MAKERS