

WW200

Technical data Sheet

INDOOR WALL GRAPHICS FILM

PRODUCT DESCRIPTION

FACE MATERIAL : 150 μ white matt, semi-rigid calendered PVC film.
 ADHESIVE : Removable and repositionable clear acrylic.
 LINER : PE coated Kraft liner 160 gsm



TYPICAL USES

Especially designed for short term indoor wall posters on smooth, flat surfaces.
 The special ultra-removable adhesive allows you to apply the product, reposition it, and remove it to re-apply it at a later date (save the liner for storage) without leaving behind adhesive residue.

Tired of white walls? Have open wall space in your store and not sure what to do with it?
 Apply WW 200 and transform it into a work of art or prime advertising space in minutes.
 An excellent choice for home décor and retail graphics that can be removed or repositioned with ease.

PRINTING

Designed for solvent based, eco-solvent, mild solvent, Latex or UV inkjet printing on wide-format printing equipment. To achieve the best possible print quality, please make sure that the correct ICC profiles or printer settings are used. Profiles can be obtained from our Subsidiaries, Distributors or can be downloaded from www.mactac-europe.com. Printer & Heater settings and ICC profiles are also downloadable from some of the OEM's web sites.

PHYSICAL PROPERTIES OF THE UNPRINTED FILM

	Average values	Test method
Adhesive Data, 23°C Quick Tack on glass Peel 24h on glass	7 ± 2 N/25 mm 7 ± 2N/25 mm	FTM 9 FTM 1
Dimensional stability shrinkage : 48 hours at 70°C (applied on aluminium)	max 0.5mm	FTM 14
Flammability	Self-extinguishing applied on Alu panels	MACTac internal test method
Temperature ranges Minimum application temperature : Service temperature range :	+ 10°C - 5°C to + 70°C	

SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity (in the original packaging).

EXPECTED DURABILITY

The indoor durability of this film is 1 year. Not recommended for outdoor use.

RECOMMENDATIONS

1) Printing conditions: A conditioned pressroom, ± 23°C and 50 % R.H.

Please ensure the print is perfectly dry. The printed material should be left to dry for at least 48 hours prior to application. It is recommended to use increased cold airflow drying to speed up the drying process.

2) Over-Laminating: we do not recommend you over-laminate WW 200. The adhesive is very low tack and adding an over-laminate will most likely result in edge curl / edge lifting.

INSTALLATION INSTRUCTIONS

- a) Before installing, unroll and lay flat. Allow the material to relax and reach room t° for at least 90 minutes.
- b) Do not install WW 200 onto cold or damp surfaces, anyway near heaters, fires or central heating radiators.
Don't expose to direct sunlight.
- c) If the wall has been freshly painted, allow it to cure for at least one week prior to installing the film.
- d) For best results insure the wall has a flat, smooth, even, dry surface. Avoid textured surfaces including textured paints.
- e) Use a dry cloth to remove any dust from your wall surface. If you need a damp cloth to remove excessive dirt and dust, allow the wall to dry for an additional 24h.
- f) Once applied remove air pockets or wrinkles working from the center out. Smooth down all the outer edges.
- g) **Retained solvents in the print will affect edge adhesion. A print gradient lightening to the edge of the graphic or a white border around the graphic for solvent print posters are recommended. The product is not intended for wall murals!**
- h) The Graphic should be repositioned at least every 6 months due to paint fading issues. Where the graphic is on the wall the paint is protected and will not fade whereas the area not protected will fade.
- i) For best results, remove slowly.

IMPORTANT NOTICE

All MACtac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.

Published information concerning MACtac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.

Because of the variety of uses of MACtac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.

All specifications are subject to change without prior notice.

WW100 PRO

Highly Conformable Wall Graphics Film

→ Construction

FACE MATERIAL	55 µm white gloss soft, highly conformable, polymeric PVC film
ADHESIVE	Grey High Tack permanent solvent acrylic
LINER	PE Coated Kraft liner 130 g/sqm

→ Advantages

- Highly conformable product, easy to apply on rough walls.
- Good printing quality with Solvent, Eco-solvent and Latex inks.
- HighTack solvent-based adhesive.
- Very good opacity due to the grey adhesive.
- WW100 PRO allows to create large-scale communications with strong visual impact

→ Surface type compatibility

The product is developed for rough surfaces like brick stone, concrete walls.

→ Applications

WW100 PRO is mainly intended for medium-term promotional and corporate indoor and outdoor applications, on unusual surfaces which have not been used before: museums, cathedrals, buildings, home wall facades.

→ Printing

This product is designed for solvent, eco-solvent and Latex inkjet printing on wide-format printing equipment. UV printing is also possible as long the selected inks are flexible enough for the expected deformation.

If printed on UV, please adapt your print speed and curing settings. Please refer to the printer manufacturer settings for thin, soft media.

To achieve the best possible print quality, please make sure that the correct ICC profiles and printer settings are used. Profiles can be obtained from our Subsidiaries, Distributors or can be downloaded from www.mactac.eu.

The ICC profiles are provided solely as a customer resource. Print environments, the individual nature of printing systems, inks and software can significantly affect output. It is the customer's responsibility to determine the suitability of any profile for use in their specific print environment.

Print room conditions: Print in conditioned pressroom at ± 23°C (73°F) and 50% RH. The maximum allowable ink saturation is 270%.

Note: for the best results during lamination and application, it is very important that the print is totally dry. The solvent presence softens the film and makes it more stretchable. An improperly dried print will reduce

the adhesive performance and increase the risk of edge lifting, excessive shrinkage, delamination and excessive adhesive transfer. We recommend placing the printed graphic into an additional drying unit for at least 24h (preferably at 30°C). If no additional drying unit is available, we recommend a longer drying time of 36 – 48h with the print laid out on a flat surface or hung to dry with enough space to allow good air flow over the surface of the film. Keeping the graphic tightly rolled up will not allow the solvents to evaporate.

→ Application Method

WW100 PRO must be applied following the general self adhesive application guidelines and the Technical Bulletin 4.20, both available on our website, www.mactac.eu, section Customer Support.

Limitations: Due to the wide variability of substrates, sealants and paints, no claims for unsuccessful applications onto or removal are accepted by Mactac. It is the users' responsibility to determine, by prior testing, the products suitability for the intended surface.

→ Expected Durability

The expected vertical outdoor durability of the unprocessed product in Central Europe (Zone 1) is: **up to 3 years.**

This information is based on successful real life experience and artificial aging according to ISO 4892-2. Note: Overlamination of the inkjet printed material delays eventual color fading that may occur upon time. This color fading is dependent from the quality of the inkjet inks, the orientation of the printed material, the angle of display and the exact location of exposure on the Globe.

Exposure to severe temperatures, ultra-violet light as well as conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure. No durability warranty is given for horizontal exposure. For more information, please refer to Technical Bulletin 7.5: "Outdoor Durability of combined MACtac print media and laminates".

→ Shelf Life

1 year when stored at 15 to 25°C and ± 50 % relative humidity (in the original packaging).

→ Physical Properties	TYPICAL VALUES	TEST METHOD
Adhesive data, 23 °C Quick Tack on Glass (N/25 mm) Peel 24h on Glass (N/25 mm)	24 18	FTM 9 FTM 1
Dimensional stability shrinkage: 48 hours at 70 °C (applied on aluminum)	Max 0.5mm	FTM 14
Temperature ranges Minimum application temperature: Service temperature range	+ 10 °C - 20 °C to + 70 °C	
Flammability	Self-extinguishing	Mactac Test Method

→ Lamination

If the printed graphics is likely to be exposed to corrosive liquids, smoke, fumes, highly polluted areas or if there is a likelihood of scratching or friction or to ensure longer durability, **it is strongly recommended to laminate the prints with pressure-sensitive protective films: CastLAM Gloss, CastLAM Matt, LAG 100 or NoTag 90 series.**

The protective lamination process needs to be carried out after the print is totally dry – please see the note above in the printing paragraph.

Mactac denies responsibility for product failure if non-Mactac laminating films are used for the application.

→ Transport

To allow easy transportation, **WW100 PRO Series** can be rolled up, with the image on the outside, with a minimum diameter of 15 cm (for example on a 6 inches' core). Make sure the print is completely dry and protected in a plastic bag. During transportation or storage, avoid exposing the print to extreme temperature and humidity changes.

→ General Remark: factors affecting adhesion

To ensure application suitability - always test the proposed construction under actual application and end-use conditions before going into full production.

The removability of **WW100 PRO Series** may be affected by the following substrates: polystyrene, nitrocellulose painted surfaces and soft PVC. With such substrates an increase of adhesion over time may occur and adhesive residue on removal may be noticed.

The following factors can change the adhesion of the self-adhesive product

- Dust, dirt, grease, oxidation
- Low tension surfaces like polyethylene, polypropylene, etc.
- Application below the minimum application temperature or use outside of the recommended service temperature ranges must be avoided.

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All specifications are subject to change without prior notice.

Technical Support



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Self-adhesive Digital Imaging Media for wide-format inkjet Printing

WW 300

4 year monomeric calendered vinyl

Technical Data Sheet

PRODUCT DESCRIPTION

FACE MATERIAL : 100 μ white matt soft calendered PVC film.
ADHESIVE : High Tack Permanent opaque acrylic.
LINER : Coated Kraft liner 140 gsm backprinted MACTac/IMAGin

TYPICAL USES

Designed for medium term indoor or outdoor on **difficult substrates**.
The very high tack & adhesion properties of this product will make it adhere to a wide variety of substrates including **most types of flat walls**, interior or exterior and **even on latex painted walls**, often regarded as the most difficult paints.
Industrial applications: road/forest/builders' machines, waste containers.

PRINTING

Designed for solvent based, eco-solvent, mild solvent, Latex and UV inkjet printing on wide-format printing equipment.
To achieve the best possible print quality, please make sure that the correct ICC profiles or printer settings are used.
Profiles can be obtained from our Subsidiaries, Distributors or can be downloaded from www.mactac-europe.com.
Printer & Heater settings and ICC profiles are also downloadable from some of the OEM's web sites.

PHYSICAL PROPERTIES OF THE UNPRINTED FILM

	Average values	Test method
Adhesive Data, 23°C Quick Tack on glass Peel 24 hours on glass	24 \pm 5 N/25 mm 26 \pm 6 N/25 mm	FTM 9 FTM 1
Dimensional stability shrinkage : 48 hours at 70°C (applied on aluminium)	max 1.0 mm	FTM 14
Temperature ranges Minimum application temperature : Service temperature range :	+ 10°C - 20°C to + 70°C	
Flammability	Self-extinguishing	Mactac Internal test method
Solvent resistance	No effect	Applied to stainless steel. Exposed to: oils, greases, aliphatic solvents, alcohols, mild acids, mild alkalis.
Petrol resistance	If extended contact, edge-lifting will occur.	Repeated (each 10 min) petrol spraying.

SHELF LIFE

2 years when stored at 15 to 25°C and \pm 50 % relative humidity (in the original packaging).

DURABILITY

The outdoor durability of the unprinted film is 4 years (Middle European Exposure conditions, vertical exposure).
Overlamination of the inkjet printed material delays eventual colour fading that may occur upon time.
This colour fading is dependent from the quality of the inkjet inks, the orientation of the printed

material, the angle of display and the exact location of exposure on the Globe. For more information, please consult *Technical Bulletin 7.5 "Outdoor Durability of combined print Media and Laminates"* on our web site.

RECOMMENDATIONS

Always test the combination of JT 5000 products, inks and laminating films prior to commercial use.

Printing conditions

A conditioned pressroom, $\pm 23^{\circ}\text{C}$ and 50 % R.H.

Laminating conditions

Please ensure the print is perfectly dry. The printed material should be left to dry for at least 48 hours prior to lamination or transport.

If the printed graphics is likely to be exposed to corrosive liquids, smoke, fumes, highly polluted areas or if there is a likelihood of scratching or friction or to ensure longer durability, it is strongly recommended to laminate the prints with pressure-sensitive protective films PG 7281-84-85.

MACTac denies responsibility for product failure if non-MACTac laminating films are used for the application.

Transportation conditions

To allow easy transportation, IMAGin JT series can be rolled up, with the image on the outside, with a minimum diameter of 15 cm (for example on a 6 inches core).

When the image is not protected with a laminating film, make sure that the print is perfectly dry before rolling it over. To avoid exposing the print to any liquid aggressions, prints should be protected by a plastic bag. During the transport or storage of the prints, avoid exposing them to extreme temperature and humidity variations.

GENERAL REMARK : factors affecting adhesion

To ensure application suitability - always test the proposed construction under actual application and end-use conditions before going into full production.

The following factors will adversely affect adhesion of a pressure-sensitive adhesive:

- * Dusty, dirty, oily or oxidized surfaces
- * Mould release agents on blow-moulded plastic surfaces
- * Low surface energy substrates, such as: polyethylene, polypropylene...
- * Application below the minimum application temperature or use outside of the recommended service temperature ranges.

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