

MACal® 9800 HT PRO

PRODUCT DESCRIPTION

MACal 9800 HT PRO are premium polymeric stabilized calendered soft vinyl films that are coated with a durable, permanent high tack acrylic based pressure-sensitive adhesive giving an excellent dimensional stability.

MACal 9800 HT PRO is designed for trouble-free computer cutting and fast weeding for difficult substrates.

Face Material: Polymeric stabilized calendered vinyl, 66 µm thick, cadmium-free.

Adhesive: High quality clear solvent based high tack permanent acrylic adhesive.

Liner: Highly stable 135 gsm white kraft paper with grey backprinting.

For white vinyl the liner is coated with a blue silicone coating to improve the contrast with the film colour.

NB : CONTRAST B ensures a clear view during the stripping process therefore improving productivity.

TYPICAL USE

MACal 9800 HT PRO is designed for long term interior and exterior marking applications (POS, wall signs...) on non-smooth or slightly porous surfaces like matt painted walls, MDF etc.

MACal 9800 HT PRO provides ideal conformability over simple contours.

PROCESSING

Computer cutting

Clean, quick, trouble-free cutting with most plotters. Adjustment of the cutting depth is important: if the cut is too deep this could result in the paper splitting and coming away with the adhesive when the vinyl is transferred to Application Tape.

Application method

The transfer of the cut vinyl onto the Application Tape should always be performed by removing the liner from the pressure-sensitive material (i.e. with the PVC face downwards onto the working surface) and not by lifting off the Application Tape.

MACal 9800 HT PRO can be applied with the dry application method on slightly curved surfaces. On flat surfaces the dry or the wet application method is suitable.

Edge sealing and varnishes

Where exposure to chemicals and solvent spillage is likely to occur, edge sealing of decals with a varnish will prevent edge lift. Correct varnishing of decals gives greater protection, and extends the use-life against prolonged effects of weathering, abrasion and other effects such as frequent cleanings.

Important remark

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. The compatibility of paints and lacquers should be tested by the end-user, prior to use.

SHELF LIFE

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

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness (µm)		
Film + Adhesive	95	ISO 534
Face Material data, 23°C (N/25mm)		
Tensile Strength	>27	DIN ISO 527-3
Elongation at Break (%)	150	DIN ISO 527-3
Adhesive data, 23°C (N/25 mm)		
Peel adhesion 180° on stainless steel		
- 20 min. residence	19	FTM1
- 24 hour residence	23	FTM1
- 1 week residence	26	FTM1
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	Max. 0.5mm	FTM14

Temperature ranges		
Application (°C)	-8°C	
End-use (°C)	-40°C to+90°C	

Flammability		
Sample mounted on aluminium	Self-extinguishing	ISO 3795
Solvent and chemical resistance		
Resistance to most:	oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis.	

EXPECTED DURABILITY

Central Europe - Zone 1

Black & White	10 years	ISO 4892-2
Colours	8 years	ISO 4892-2
Metallics	5 years	ISO 4892-2

Note : Exposure to severe temperatures, ultraviolet light, and/or conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitudes and south-facing exposure. No durability warranty is given for horizontal exposure.

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