

COALA MAGNETICS AND FERRO



GENERAL SUPPORT TIPS

RECOMMENDATIONS



Factors influencing adhesive force

The adhesive force specifications in the datasheets require ideal conditions. Material, surface texture and temperature may have a significant influence on the adhesive force of a magnetic tape or sheet. The maximum magnetic force can only be achieved on smooth surfaces and with full contact. The tape or sheet needs to be placed flat and directly on the counterpart and without bubbles. If there is no direct contact to an iron counterpart - a piece of paper, dirt or a thick coating in between - it is enough to let the magnetic force diminish rapidly. Keep the material away from strong (electro) magnetic fields.

It is recommended to mount the base film and printed panels vertically. This guarantees the best possible magnetic holding force.

Working temperatures

Temperatures under -20°C and above $+80^{\circ}\text{C}$ change the structure of magnetic tapes and sheets and may cause the products to permanently lose some of their adhesive force. Therefore, do not use them in places with extremely high or low temperatures and set your print parameters accordingly, especially when using Latex print technology.

ENVIRONMENTAL FACTORS



Outdoor use

Even with correct application, air humidity and UV radiation can affect the adhesive of self-adhesive products over time. Self-adhesive magnetic tapes and sheets have only limited use in outdoor and wet surroundings such as bathroom, sauna, etc. because the adhesive may deteriorate over time. If you still want to use it under these circumstances we recommend to replace the product from time to time.

Coala Magnetic printable PVC Film 850 μ and Coala Mag-Force PVC 600 are recommended for outdoor and vehicle use.

Avoid using magnetic graphics at extreme low temperatures below -20°C . Cold weather will make the magnetic film brittle, use caution when handling the film at low temperatures.

Ferrous and Magnetic films do not rust, however strong UV radiation and or high temperature and humidity do affect the properties of the material. It is recommended to check the material at regular intervals especially in outdoor and high humidity / temperature environments and replace it if necessary.

WALL PREPARATION FOR SELF-ADHESIVE BASE FILMS



Recommendations

First check if the material is received in good order and has not been damaged in transport.

- The mounting surface must be stable, smooth, solid, dry and free of mold or algae.
- Not all painted surfaces will give a good adhesion, check adhesion on a small area.
- Measure the area to be covered and calculate the number and length of strips required.
- Due to the large number of variables that are beyond the control in using the product we strongly recommend to test the product in the actual application before using in a large project.
- Antalis cannot be held responsible for failure of the project.

WALL MOUNTING WITH SELF-ADHESIVE BASE FILMS



Mounting

- Vertical mounting is the best method, horizontal mounting will result in a lower holding force.
- Draw a vertical line on the mounting surface to align the first panel vertically.
- Remove the release liner from the Base film.
- Apply the Base film to the mounting surface with a squeegee, starting at the top, from the center to the side.
- Mount the second panel, panels should not overlap. Leave a 1-2 mm gap between the panels to allow thermal expansion.
- The minimum radius possible around edges is 12 mm.
- Do not stretch the material during mounting.
- Due to the weight of the material it is recommended to fix the self-adhesive material at the top with some staples for extra security.
- When making prints for large areas it is recommended to limit the size of the panels vertically to 3 meter (Coala Ferro PET Film 180 μ in combination with Coala Magnetic Base Adhesive 700 μ). Tiling the image is the best solution in case large graphics are required. The use of the thinner magnetic base is not recommended in large scale applications.
- Coala Ferro PP Film 240 μ is only recommended for smaller areas due to the flexibility of the material.
- The material can be cut with sharp scissors or a knife.






PRINTING FERRO & MAGNETIC FILMS

Flexible, printable films are available for most inkjet print technologies. Due to the special characteristics and finishing methods of the media, minor modifications on the printer hardware may be necessary in order to achieve correct printer operation and the best print results.

- The rear side of most ferro and magnetic print media have a dark colour. This may cause the printer not or intermittently to detect the media presence. In this case a white sticker over the media detector will solve the issue.

 **WARNING:** Do not leave the printer unattended since it will not detect the end of media and continue printing, contaminating and possibly damaging the printer hardware.

- Many printers will have steel/iron parts on the feed/intake side and the output/dryer. Magnetic media will be attracted by these surfaces which may cause deformation of the media causing head strikes or even block the transport of the media. This can be prevented by causing a gap between the magnetic side of the media and the steel parts of the printer by mounting a sheet of a material such as a paper release liner or a 200gsm paper on these surfaces. This may also disable the media detector.
- Especially in HP Latex printers the high temperatures may cause deformation of the media and change the characteristics of the magnetic media. It is recommended to keep the curing temperature under 85 ° C (!)
- Always check the printer manual for the maximum media thickness allowed to avoid serious damage to the printer.



SHIPPING & LAMINATING FERRO & MAGNETIC FILMS

Shipping

Prints have to be completely dry before shipping, especially when (Eco)Solvent inks are used the print has to dry for at least 12 hours.

It is recommended to ship the printed graphics in a cardboard or plastic tube protected by a paper or plastic sleeve.

Lamination

The printed graphics can be laminated, before laminating the print has to dry completely laid out flat.

- Rolled up prints will not dry.
- Liquid lamination is recommended.
- Cold/self-adhesive lamination is also possible, however this type of laminate may cause stress in the material resulting in curl and failures.
- Hot/warm lamination is not recommended as this may cause stress in the material and/or damage its magnetic properties.

