



# TECHNICAL INFORMATION

## General Suggestions for the Use of Wax Polyester:

In the set of wax polyester varnishes, Mas produces Polymas # 158 by spraying for flat panels, and Maslux # 177 V by spraying for vertical panels, turned pieces, table – leg.

The main characteristic of the above products is the wax (paraffin), which marks the difference with all other varnishes belonging to the unsaturated polyester range.

It is the presence of the wax that oblige to a particular care in handling and applying these products but, when the customer follows up the common rule which are basically for obtaining the best performance of wax polyester varnishes, the outstanding results (especially the surface hardness and brilliancy) make worthy their use.

## Here is a list of general recommendations:

1. In cold countries when Polymas # 158 H, and Maslux # 177 V are stored in very cold rooms, a crystallization of the wax is occurring. To prevent this effect (which is the cause of white hole problem on the coated panels) recover tins in hot – rooms at 20 / 24<sup>0</sup>C.ab.

During winter it may be happen that tins of Polymas are stored a temp. Below 16<sup>0</sup>C. at these low temperatures wax is crystallizing and, for a safe employ of polyester, it is imperative to heat the varnish at 33 – 35<sup>0</sup>C. in order to melt wax. Help yourself shocking the tins. This melting of the wax is easily carried on putting tins in a hot water – bath. When varnish has risen at 35<sup>0</sup>C. leave it overnight to diminish temp. at nor room temp. It means till 21 – 23<sup>0</sup>C.

You may realize that wax is crystallized when looking at the varnish in the tin you will perceive a light hazy appearance.

2. It is important to know that the best temperature range during the working of wax polyester varnishes is 18/27<sup>0</sup>C.

We have already examined the effect of crystallization of wax at temperature below 18<sup>0</sup>C. and suggested the solution of the problem. On the other side in the case of high temperature, on approaching of hot season in temperature countries, or in tropical conditions where the temperature is steadily high, end – users have to take many more precautions in using wax – polyester varnishes.

As a matter of fact with high temperature, the wax remains dissolved in the polyester instead of appearing on the surface, causing of lot of inconvenience like: fully glossy surface, not perfect hardening, troubles in sanding, absolutely lack of levelling.

To solve these troubles connected with high temperature, you have to follow carefully our suggestions before the application of wax polyester varnishes.

- a) Air conditioning of the locals of working and drying of polyesters.
  - b) If it is not available an air conditioning room, apply polyesters early in the morning or late in the evening when the temp. is more fresh than during the day.
  - c) The storage of the tins must take place in fresh local for a good conservation of the product as well as for obtaining a better appearing of the wax during the application of the polyesters.
  - d) During the working a further addition of “Summer Solution” (one of our most effective additive) help a lot to overcome the problems connected with high temperature (suggested ratio 0.5 / 1%).
- Other general recommendations on the use of wax polyester varnishes are connected with their chemical nature.
3. All set of Polymas # 158 and Maslux # 177 V are sensible to woods containing tannin and oil (like teak, rose wood, ebony, etc.)Which cause inhibition during the hardening process. In with Isoprime # 343 (see on our literature :Isoprime # 343).
  4. Never mix directly Accelerator and Catalyst: the mixture may explode.
  5. When it is requested an application of our wax polyester on White wood, or an application of white wax polyester, in order to avoid the yellowing, we suggest to contact our technical service.  
MAS can provide (under request!) duly modified varnishes and non – yellowing accelerator which permits to obtain the task of non-yellowing on the coated panels.
  6. Wax polyester varnishes supplied by MAS are clear (transparent) but they can be successfully used in – obtaining pigmented pastes. With MAS pastes (set MAS DYER), is sufficient an addition



of 7-+8% of pastes to obtain hard coated surface ready to be buffed and polished.

MAS DYERS are available in following colours: White, Yellow, Red Bordeaux, Carmine, Brown, Blue, & Black.

After mix the MAS DYERS pastes thoroughly in clear max polyester. The pigments varnish is to be treated and worked with the same suggestions and recommendation like clear wax polyesters.

7. All the wax polyester varnishes, after the addition of accelerator and catalyst, in this very strict succession, react by themselves emitting heat up to a thermic peak at 180<sup>0</sup>C. Therefore, take care of these mass as long as the heat spread. The final result is a solid insoluble mass.

*The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.*

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