



responsible technologies  
for wood coating



**Performance**  
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## HIGH PERFORMANCE WATER-BASED PRODUCTS FOR EXTERIORS -ULTRA LOW VOC'S



AN IVM CHEMICALS' BRAND   
Technologia lakierów i polimerów



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## THE APPLICATION OF THE TOP COAT

The top coats, including the pigmented white, can be used as self-sealers, excluding the use of the undercoat.

The topcoats, TN 931, TN 931/00, and PN6B, can be applied both horizontally and vertically, by brush, or spray. They are highly water resistant. Klima films are microporous, allowing internal pressure of water to exit the coating.

TN 931 offers the best protection against the sun's rays, as it contains a small amount of pigment. The pigment reflects the UV rays of the sun. This protects the wood from UV degradation.

TN 931 also contains UV absorbers and filters besides a very small amount of pigment.

The TN 931/00 is a clear coating and has UV absorbers and filters. The protection is slightly inferior to that offered with TN 931, containing pigments to reflect the UV rays.

Clear topcoat, TN931/00, is also used as a base for making all pigmented colors using PZ5 pastes (see the full range of pastes inside front cover). It can be used as a clear coating but does not offer quite the same protection from UV rays as TN931.

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### KLIMA WAX LINE

The Klima Wax line of products are ultra low VOC, non-slip, wax-effect impregnating topcoats. These specially selected and tested artificial waxes used in the formulation assure a non-slip surface and very low water absorption, guaranteeing higher dimensional stability to the coated items. Klima wax is appreciated for its natural aesthetic effect that enhances the beauty of the wood to which it is applied.

The Klima Wax is ideal for coating log cabins, gazebos, fences, balconies, decks, house wood sidings, and beams. It is specially formulated to act as a barrier against all atmospheric agents such as rain, humidity, snow, and smog. Besides protecting from attacks from atmospheric conditions, it will protect against bluing, mold, fungus, and parasites. **Klima Wax products are best applied by brushing.**

### KEY PERFORMANCE

Optimum protection against the weather, allowing wood to withstand direct exposure to rain, snow and moisture

High resistance to light and UV rays for longest coating film life and greater color stability

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There are a number of specialty exterior W/B Klima products, including a white paint series, PN4B white sealer and PN6B white satin finish.

These can be tinted using pastes from the PZ5 series of pastes to make pastel colors.

All of the undercoats (sealers) and topcoats can be thinned for spray use. We recommend adding TZ07, TZ77 or water. In order to make them more brushable, we recommend the addition of TZ08.

There is also a rejuvenating product, TN030. This product is used in the field as a maintenance product. The concept is that once a year, or when necessary, clean the door, window, shutters, or furniture. Then apply a little of the TN030 with a clean cloth and wipe this product on to the finished surface. This will help to maintain the original performance.

Should **any** of the impregnators, sealers, or topcoats require thinning, or to be "slowed down", apply up to 5% TZ08.

**Ilva Klima:** water-based paint lines; Specifically formulated for coating and protecting exterior doors, sills, and windows.

Klima WB coatings are extremely flexible, they will not crack, flake, chalk, blister, or lift from the wood substrate when applied.

Klima products are available in clear and pigmented versions.

The main phases of the coating cycle with Klima exterior products are:

1. Sanding the surface to be coated; Softwoods, using 150-180 grit; Hardwoods, using 180-220 grit
2. Application of the impregnator by spray or brush. When dry, it can be **lightly sanded** with Scotch Brite or 320 grit sandpaper. This will remove any raised fibers.
3. Sanding of the undercoat TN40, if used, or topcoat TN931 or TN931/00, if used as a self-sealer, 240-320 grit or superfine sponges.
4. Application of the top coat is by spray or brush.

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#### APPLICATION OF AN IMPREGNATER

The application of impregnators is fundamental for the protection of wood. Impregnators protect against biologic agents like fungus, bacteria, mold, and parasites. The stain versions, besides giving the desired color shade, protect the wood from the action of UV rays and from atmospheric agents such as rain, frost, and pollution.

In order to select the correct impregnator, it is important to first identify the type of wood. Basically, we can divide wood into 2 categories: Softwood (conifers) and Hardwoods (broadleaf).

For softwoods, the impregnator TN 30 should be used.

For hardwoods, use TN 340; however, some broadleaf woods are very rich in minerals, for example, Iroco, teak, green-heart, chestnut. These tanning, mineral-rich woods may require the use of a special impregnator. We suggest TN370.

TN 30-Clear Softwood impregnator-use for natural finish, or as a base to make custom colors.

TN 340-Clear Hardwood impregnator-use for natural finish or as a base to make custom colors.

TN 370-Clear tannin-rich, oily wood impregnator-use for natural finish or as a base to make custom colors.

All of the impregnators are supplied using clear or stock colors. See inside front cover for a list of standard colors.

The clear impregnators can also be tinted or colored using the the PZ4 color range on inside cover. For deeper colors, the addition of PZ5 pastes is required. We can supply mixing formulations for this.

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#### THE APPLICATION OF UNDERCOAT TN40

Klima sanding sealer TN 40 gives higher filling power and excellent sandability.

The use of TN40 sealer/undercoat allows the higher filling, guaranteeing a full-filled grain effect, if required, and slightly smoother film uniformity of the top coat.





# PRODUCT RANGE

TN30 Clear SoftWood Impregnator  
PN31 Teak  
PN32 Lt Walnut  
PN33 Cherry  
PN34 Antique Walnut  
PN35 Douglas  
PN36 Mahogany  
PN37 Green Wood  
PN38 Walnut  
PN39 Chestnut

TN340 Clear HardWood Impregnator  
PN3011 Fir  
PN3019 Myrtle  
PN310 Teak  
PN330 Dk Walnut  
PN332 Chestnut  
PN333 Cherry  
PN338 Walnut  
PN340 Antique Walnut  
PN350 Douglas  
PN360 Mahogany  
PN370 Green Wood

TN370 Clear Oily Wood Impregnato

TN40 Clear Sealer

TN931 Clear Satin Wood Tone Finish

TN931/50 Clear Semi Gloss Wood Tone Finish

TN931/00 Clear Satin Finish

PN410 White Impregnato

PN4B White Sealer

PN6B White satin Finish

TN090 Clear Maintenance Finish

TN030 Clear Regenerating Finisher

Impregnator Color Pastes

PZ402 Yellow Oxide  
PZ404 Brown  
PZ405 Brite Red  
PZ406 Red Oxide  
PZ407 Green  
PZ409 Black

Solid Color Pigment Pastes for Finishes

PZ520 White  
PZ523 Yellow Oxide  
PZ524 Orange  
PZ526 Red Oxide  
PZ527 Bordeaux  
PZ528 Blue  
PZ529 Black  
PZ531 Hi Hide Lemon Yellow  
PZ534 Brite Red  
PZ535 Carmine Red  
PZ537 Green  
PZ547 Violet

