



Klima®

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



AN IVM CHEMICALS' BRAND **ivm** Chemicals
coatings & polymers technologies

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STANDARD ILVA PRODUCT RANGE

TN30 Clear Soft Wood Impregnator

PN31 Teak

PN32 Lt Walnut

PN33 Cherry

PN34 Antique Walnut

PN35 Douglas

PN36 Mahogany

PN37 Green Wood

PN38 Walnut

PN39 Chestnut

TN340 Clear Hard Wood Impregnator

PN3011 Fir

PN3019 Myrtle

PN310 Teak

PN330 Dark Walnut

PN332 Chestnut

PN333 Cherry

PN338 Walnut

PN340 Antique Walnut

PN350 Douglas

PN360 Mahogany

PN370 Green Wood

TN370 Clear Oily Wood Impregnator

TN40 Clear Sealer

TN931 Satin Wood Tone Finish

TN931/50 Semi Gloss Wood Tone Finish

TN931/00 Clear Satin Tint Base

HTM5A077 Clear 5 Sheen Base

PN410 White Impregnator

PN4B White Sealer

PN6B White Satin Finish

TN090 Clear Maintenance Finish

TN030 Clear Regenerating Finisher

PX0/03 Thinner/Retarder for Impregnator/Topcoat

HTM5A273 Nano-Tech Ultra-Clear Self-Seal Satin Topcoat

HTM5B036 Nano-Tech Ultra-Clear Self-Seal 10 Sheen TC

HTMB066 Klima 3:1 Clear 10 Sheen Self-Seal

HTMB06H Klima 3:1 Clear 25 Sheen Self-Seal

HNS703 Klima Clear Gel Impregnator

HNS710 Klima Clear Uniforming Impregnator

WSS503 Klima Aquatech White Sealer

WTM5883 Klima White Converter Finish

Impregnator Color Pastes semi transparent

PZ402 Yellow Oxide

PZ404 Brown

PZ405 Brite Red

PZ406 Red Oxide

PZ407 Green

PZ409 Black

Solid Color Pigment Pastes for Finishes

PZ520 White

PZ521 Vivid Yellow

PZ522 Gold Yellow

PZ523 Yellow Oxide

PZ524 Orange

PZ525 Wisteria Red

PZ526 Red Oxide

PZ527 Bordeaux

PZ528 Blue

PZ529 Deep Black

PZ531 Lemon Yellow

PZ534 Vivid Red

PZ535 Red

PZ537 Green

PZ547 Violet



Ilva Klima: water-based paint lines; Specifically formulated for coating and protecting vertical 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. Sand the surface to be coated; softwoods, use 150-180 grit; hardwoods, use 180-220 grit.
2. Apply 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. Sand the undercoat TN40, if used, or topcoat TN931 or TN931/00, if used as a self-sealer, 240-320 grit or superfine sponges.
4. Apply the finish coat by spray or brush. It is important to achieve the recommended wet film thickness. This will require multiple coats.

1. 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, wood can be divided into two categories: Softwood (conifers) and Hardwoods (broadleaf).

For softwoods, the impregnator TN 30 clear should be tinted with PZ40* pastes.

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.

HNS710-High uniforming effect impregnator-for finger-jointed or discolored wood.

HNS703-Gel Impregnator with good open time.

All of the impregnators are available in 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 PZ4 semi-transparent color range shown on inside cover. For deeper colors, the addition of small amounts of PZ5 pastes is required. Mixing formulations are available upon request.

2. THE APPLICATION OF UNDERCOAT TN40

Klima sanding sealer TN 40 gives higher filling power and excellent sandability. The use of TN40 sealer/undercoat allows for a bigger build, guaranteeing a full-filled grain effect, if required, and slightly smoother film uniformity of the top coat.



3. THE APPLICATION OF THE TOP COAT

All Klima top coats, including the pigmented white, can be used as self-sealers, eliminating the need to use an undercoat.

Topcoats, TN931, 931/00, PN6B, and HTM5A273 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 through the coating.

TN 931 offers excellent protection against the sun's rays, as it contains a small amount of iron oxide pigment. The pigment reflects the UV rays of the sun, helping to protect the wood from UV degradation.

TN 931 also contains UV absorbers and filters in addition to the very small amount of iron oxide pigment.

The HTM5A273 and HTM5B036 are ultra-clear self-sealing topcoats. They have Nano-tech UV absorbers and filters.

They must be used with PZ4xx pigments in the impregnator/stain in order to offer the maximum UV protection.

TN931/00 is a Clear Convertor used as a base for making all pigmented colors using PZ5 pastes (see the full range of pastes inside front cover). It should not be used as a clear topcoat, but does contain extra UV absorbers which work in harmony with the PZ5 colorants to give protection of a pigmented topcoat.

KLIMA UNICO 3 IN 1

Ideal for contractors and small wood/carpentry shops, for use on both softwood and hardwood products including windows, doors, gazebos, trellises, awnings, conservatories, summer houses, gates, and garden furniture. It can also be used on deck flooring. Unico 3 in 1 is a very user-friendly external coating. It is a fast drying, mono component, medium viscosity, allowing the coating to lay out very evenly. Can be used on vertical and horizontal surfaces.

Apply as follows: one coat brushed on then two subsequent coats sprayed on will give a furniture-finish look. Three coats are ideal except on decks. Two coats are recommended for decks. Each coat increases the color and sheen. Unico uses state of the art resins plus nanotechnology and additives, insuring the film will not crack, flake or peel.

Environmentally conscious, ultra-low VOC content of 52 g/l. Available in three sheen levels.

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.

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.

Special Klima Wax products are available for decks and sidings.

All of the sealers and topcoats can be thinned for spray use. We recommend up to 5% water or 5% of the PX0/03 retarder/thinner. Using PX0/03 will make the products more brush-able and can be used in the impregnators, sealers, or topcoats.

There is also a rejuvenating product, TN030. This product is used in the field as a maintenance product. Once a year, or when necessary, clean the door, window, shutters, or furniture using a mild soap product and water. Then apply a little of the TN030 with a clean cloth and wipe this product onto the finished surface. This will help to maintain the original performance.