

CETOL HLSE

Description: A transparent, penetrating finish based on oil-alkyd resin for exterior and interior use.

General Notes

- Main Characteristics:**
- The wood grain remains visible.
 - Highly water repellent.
 - Micro-porous, resulting in a humidity-controlling system.
 - Resists growth of surface mould / algae, UV light, peeling and cracking.
 - Optimum colouring effect.
 - Simple maintenance.
 - Satin finish.

VOC content - <400g/L (compliant with European legislation after 2010)
This product contains approx. 365g/L VOC

- Use:**
- For the decoration and protection of timber constructions: Wall cladding, structural woodwork and joinery, doors, eaves, fascia boards. Especially suitable for the treatment of softwoods, i.e. Western Red Cedar, Oregon, Treated Radiata Pine.
 - Decking, outdoor furniture, spa baths, louvres, roof shingles: Abrasion resistant and non-tacky finish.

Application Data

- Temperature of Application:** 5 – 35°C. At temperatures below 10°C, the drying process will be delayed. Drying time may also be retarded when used internally with insufficient air flow / ventilation or in conditions of high humidity.
- Method:** By good quality, long haired natural bristle type. Do not use rollers or applicator pads.
- Thinning:** None. Ready for use after thorough stirring.
- Cleaning of Equipment:** Mineral Turps.
- Coverage Rate:** Smooth wood: approx. 12 – 16m² per litre.
Rough-sawn wood: approx. 4 – 8m² per litre.
The coverage rate depends greatly on the timber species and the texture of the surface.
- Film Thickness:** Wet 50 microns – Dry 10 microns, per coat. A Cetol HLSe system should have a minimum dry film thickness of 20 microns.
- Drying time at 20°C/65% relative humidity:** Dust dry: after approx. 4 – 6 hours.
Recoatable: after a minimum drying time of 24 hours with a further coat of Cetol HLSe, Cetol Filter 7 Plus or Cetol TGL Gloss Plus, or after a minimum of 24 – 48 hours when finishing with Cetol Supernatural.

Health & Safety Aspects

Flash Point: >60°C. Flammable.
Transport Code: N/A

Packaging Viscosity: Approx. 34 s ISO Cup 4/20°.

Density: 0.913kg/dm
Solids Content: 20% by weight = 24% by volume.
Gloss Level: Satin Finish.
Exterior Durability: Good (1 – 2 years for a 3 coat system).
Durability greatly depends on the wood species, quality of design and construction, location and elevation, method of application, degree of pigment etc.
Minimum Shelf Life: 36 months if stored in unopened packaging.
Keep in a frost-free place.

Availability

Packaging: 1, 5 and 20 litre cans.
Colour Range:

| | |
|---------------|--------------------|
| 006 Light Oak | 048 Rosewood |
| 009 Dark Oak | 077 Pine (Natural) |
| 010 Walnut | 085 Teak |
| 020 Ebony | 813 Silver Grey* |
| 045 Mahogany | |

*Not available in 1Ltr cans.

All colours can be intermixed in any proportion. The ultimate colour of the Cetol HLSe finish partly depends on the wood species to which it is applied.

Systems

Timber Quality:
Wooden exterior window and door frames and doors should meet the highest quality standards for joinery.

New Woodwork:

Preparation: Round all sharp edges to a 3mm radius. All surfaces must be sound; clean and free from any material defects / surface contamination that may interfere with the penetration / adhesion of Cetol HLSe. Refer to page 4 points 3 & 4.

Where necessary, fill with Cetol Gupa Tinted Wood Filler.
Apply a primer coat of Cetol HLSe in selected colour.
Apply two finishing coats of Cetol HLSe.

Ensure end grain is well coated.

Depending on wood species, a light sand between coats may be needed to remove raised grain (eg joinery and doors) using a fine grade Scotch

Brite Pad or very fine silicon carbide paper. A good film thickness is required for durability.

For best results keep interval between application of these coats as short as possible; this period should not exceed 8 weeks.

Note

For greater durability and added UV protection, it is recommended to apply two finishing coats of Cetol Filter 7 Plus or Cetol Supernatural following the primer coat of Cetol HLSe – when treating **SMOOTH softwood** cladding, fascia boards, pergolas, window joinery and doors.

For porous types of softwood (eg Western Red Cedar), or very harsh exposure, we recommend 2 initial coats of Cetol HLSe in lieu of 1.

Rough-sawn:

On textured or rough sawn surfaces apply the Cetol HLSe/Cetol Supernatural or Cetol HLSe/Cetol Filter 7 Plus system; alternatively, three coats of Cetol Filter 7 Plus.

Decks (walk-on surface), outdoor furniture, doors & louvres:

Apply three coats of Cetol HLSe. Allow a minimum drying time of 24 hours between coats.

Alternative deck systems: Prime with Cetol HLSe then apply Cetol Deck or Cetol Deck Slip Resistant, both in one transparent shade – 078 Natural – specifically formulated to provide a thicker coating resulting in greater U.V. resistance and durability. Refer Technical Data Sheets.

Maintenance:

Wall cladding, doors etc:

Every 1 or 2 years, depending on the condition of the finish, wash down with mild detergent and water and rinse well. Allow to thoroughly dry and sand lightly (180 grit). Make good any defects and apply further coat(s) of Cetol HLSe overall.

Decking:

To preserve the deck finish, maintenance at regular intervals is required as coatings deteriorate more rapidly on horizontal surfaces, depending on the amount of exposure to sunlight, abrasion from foot traffic and standing water. Every 12 months, or earlier if the finish shows signs of wear, apply a fresh coat of Cetol HLSe. Prior to coating, thoroughly clean and wash the deck with detergent and water then rinse. Lightly sand using 180 grit paper. Ensure thoroughly dry prior to recoat.

Transparency:

In order to maintain the transparent appearance of a Cetol HLSe finish over a longer period, light colours, e.g. 077 or 006, may be used for maintenance applications.

Previously stained wood surfaces:

All surfaces must be clean and free from anything that will interfere with the adhesion of the material. Remove all remaining coatings by scraping and/or use of a hot air paint stripper, or a proprietary brand paint remover in accordance with the manufacturer's instructions. Prior to staining the moisture content should not exceed 18%. Rub down with 80/100/120 grade(s) silicon carbide paper in the direction of the grain. Remove all dust.

Points to note:

1) Backs of cladding, elements to be concealed by brickwork. Always apply 2 coats of material to backs of cladding, grooves, glazing beads etc.

2) Covering of horizontal surfaces. During construction it is recommended to cover horizontal surfaces with plastic or aluminium foil to prevent their discolouration by mortar and cement.

3) Timber species. The natural oils of many timbers can reject any coating. Such timbers should be allowed to weather to ensure all "extractives" have disappeared. Refer Note 4 a) & b) below.

4) All exterior timber and decks:

a) Never apply to unseasoned timber. The timber must be fully seasoned (not "green") prior to painting.

b) Allow timber to weather as long as possible (a minimum of 12 weeks, or until leaching has ceased). For slow drying timbers such as Ironbark, Spotted Gum, Yellow Balau, Batu etc we recommend a minimum of 6 months. During this period regularly hose down oily, resinous timbers like Kwila (Merbau), Tallowwood, Blackbutt, Teak, Cypress Pine, Spotted Gum, Brushbox, Jarrah, N.G. Rosewood to allow tannins and resins to leach out. Deck surfaces may be scrubbed down with a proprietary brand cleaner to remove dirt and brighten timber. To improve penetration / adhesion of Cetol HLSe hard, smooth, shiny or glazed surfaces must be sanded with 60 – 80 grit sandpaper, preferably by belt sander. Before coating, make sure each board is free of dirt, dust and oil. Special care must be given to deck preparation, application and maintenance, as the horizontal structure of a deck allows the maximum amount of ultraviolet light to strike the surface, plus standing water and abrasion of the coating from foot traffic.

c) Apply coatings liberally. Ensure end grains are thoroughly coated.

d) On dense, close-grained timber like Jarrah, Kwila, Ironbark, Blackbutt, Spotted Gum, Brushbox etc allow a minimum of two days drying time to permit thorough hardening of the coating.

For further details on coating decks refer to our "How to get the best out of your deck" specification sheet.

The effectiveness of our systems is based on many years of practical experience and laboratory research. Nevertheless, we cannot accept, without prior investigation, any liability for the work produced according to these systems as the ultimate result depends on factors beyond our control.