



Technical Data Sheet

For internal company
use only

Standard

Description

Main properties / U.S.P.'s

Use

Selling profit Centers

Gloss

Color

Density

Packaging viscosity

Solids content

Volatile Organic
Compound

Drying at 20°C/65% RH

Outdoor durability

Cetol HLS plus (2010)

Acotint SB translucent

Translucent, solvent borne alkyd-emulsion based, low build satin basecoat and wood stain for exterior use.

GENERAL

Resists UV-light, surface mould and algae, peeling and cracking;
The wood grain remains visible and beautifies the wood species;
Micro porous, giving a moisture control system;
Ensures protection of timber;
Optimum coloring effect;
Simple maintenance;
VOC 2010 compliant.

As a primer and one-pot system in translucent systems for dimension stable constructions made from new softwood, hardwood, plywood, block board and particle board, such as claddings, fascias, architraves, timber frames, fences and sheds.

Its properties make Cetol HLS plus eminently suitable for application to softwood.

International product, sold in:

Austria, Belgium, France, Germany, Italy, the Netherlands, Spain, Switzerland and the UK

PROPERTIES

Semi-gloss, approximately 30 – 40 GU/60° (ASTM D523)

Available in the Cetol Design concept and Natural Balance translucent color collection.

The final color of the Cetol HLS plus system greatly depends on the wood species to which it is applied.

Approx. : 0,905 Kg/dm³

Approx. : 24 – 30 seconds, DIN cup 4, 23°C
0.4 – 0.7 Pa.s / Cone and Plate / 25°C

By weight : Approx. 30 %

By volume : Approx. 25-26 %

Class A/e; max 500 gr/L (2007) max. 400 gr/L (2010)

Cetol HLS plus contains 383 gr/L VOC

Dust dry : After approx. 4 – 6 hours

Recoatable : After approx. 18 to 24 hours

Approximately 2 years for a 3-coat Cetol HLS plus system.

The lighter colors of translucent products are slightly less outdoor durable. This is why the low pigmented colors of Cetol HLS plus are based on Base TU, reinforced with UV absorber and HALS. This will result in

	<p>approximate comparable durability with the other translucent colors of the product.</p> <p>Durability greatly depends on location, elevation and by the quality of wood, design, construction, glazing, condition of interior paint-work, method of application adopted, etc</p>
	<p>SYSTEM SPECIFICATION</p>
Timber moisture content	Moisture content of timber to be coated should not exceed 16%
New woodwork	<p>Where necessary, apply a single coat of Cetol Aktiva or Cetol BL Aktiva on new softwood timber that requires extra substrate protection against fungal attack</p> <p>Apply a priming coat of Cetol HLS plus for hardwood or softwood in selected color.</p> <p>Where necessary, repair with Componex WR Flex</p> <p>Apply 2 finishing coats of Cetol HLS plus.</p> <p>For best results, it is necessary to keep the interval between applications of these coats limited, not exceeding 1 month.</p>
Maintenance	<p>Depending on the condition of the finish, clean, degrease and sand thoroughly.</p> <p>Repair defects with Cetol HLS plus in the appropriate color and apply one full coat of Cetol HLS plus, overall.</p>
Transparency	Maintain the translucent appearance of Cetol HLS plus over a longer period. It is recommended to use Cetol Clearcoat LB or alternatively use lighter colors, 077 or 006 for maintenance applications.
Notes: Covering of horizontal surfaces	During construction, it is recommended to cover horizontal surfaces with plastic or aluminum foil to prevent dirt pick-up by mortar and cement.
	<p>APPLICATION INFORMATION</p>
Application conditions	<p>Temperature between : 5 – 30°C</p> <p>Relative humidity maximum : 85%</p>
Application methods	<p>Ready for use after thorough stirring</p> <p>Brush:</p> <p>Thinner : Do not thin</p> <p>Percentage thinner : ---</p> <p>Viscosity : Ready for use</p>
Cleaning of equipment	Clean the brushes and equipment immediately after use with White Spirit
Advised layer thickness At 20°C/65% RH	<p>Dry : Approx. 10 microns per coat</p> <p>Wet : Approx. 36 microns</p> <p>A Cetol HLS plus system should have a minimum dry film thickness of 20 microns.</p> <p>The first layer strongly penetrates into the wood, securing adhesion, but hardly adding to the total dry film thickness.</p>
Theoretical coverage	Dry layer thickness 10 microns, approx. 11 – 14 m ² /Liter.
Practical coverage	<p>Dry layer thickness 10 microns, approx. 10 – 14 m²/Liter.</p> <p>Coverage greatly depends on the wood species under treatment, the surface condition, the method of application and conditions during application. On rough sawn timber the coverage is significantly lower (e.g. 7 - 10 m²/L).</p>
	<p>HEALTH & SAFETY INFORMATION</p>
Formulation	DEU : 53279

MM-standard	All exterior colors are available using the Bases TC and TU and Acotint colorants.
Flash point (DIN 53213)	Approximately > 61° C
Transport code (ARD)	ADR : Class: 3 – Item: 31 C UN : 1263 Paint VbF : AIII
Risk & Safety phrases	Danger classification : Not applicable Contains : (P99) cobalt compound, 2-butanone-oxime ; May cause an allergic reaction Contains : 0,15% tolylfluaniid, 0.15% IPBC <u>R</u> isk phrase(s) : -- <u>S</u> afety phrase(s) : S02, S16, S23, S51, S62 See also "Safety Data Sheet" For latest release on "Safety Data Sheet" please contact your Information & Material Management (IMM) at least once per year
Statutory regulations	The user of this product is required to comply with the national statutory regulations for health and safety at work and waste disposal.
Transport of empty containers	Dirty empty packaging fall under restricted waste transportation and must carry the original Akzo Nobel Coatings labeling. Surplus paints can not be offered to public waste disposal without permission of the authorities All waste disposals must be arranged in agreement with the local authorities.
Ventilation requirements	<u>M</u> inimum <u>V</u> entilation <u>R</u> equirement to comply with: <u>O</u>ccupational <u>E</u>xposure <u>L</u>imit (OEL) : 0 m ³ air / Liter paint <u>M</u> inimum <u>V</u> entilation <u>R</u> equirement to comply with: <u>S</u>afety explosion limit (10% LEL) : 115 m ³ air / Liter paint See also "Safety Data Sheet".
ADDITIONAL INFORMATION	
SAP R-3 product group number 1148	
Packaging size	1 L, 2½ L, 5 L and 20 Liter
Shelf life	Minimum 24 months in original and unopened packaging,
Storage conditions	Stored in dry warehouse at temperatures between 5 – 30°C
Production location	ELXP , Austria and MTAP, France

The effectiveness of our product and systems is based on years of practical experience and research in our laboratories. We guarantee that the quality of the work on which our products are used meets the qualifications (Akzo Nobel Decorative Coatings bv) has promised, provided that all instructions given by us are correctly followed and the work has been carried out according to good craftsmanship. In case the end result has been influenced negatively by circumstances beyond our control, any and all liability are expressly excluded and disclaimed. Purchaser needs to check whether the delivered products are fit for the intended use. As soon as a new version of this (technical data sheet) is available, this one will no longer be valid.