

TYPE

Isocyanate-modified long-oil alkyd resin based on soya oil

USES

In the formulation of fast-drying hard-wearing wood finishes and DIY and decorative sealers.

FORM SUPPLIED

Approx. 51 % in white spirit A (low in aromatics)

SPECIFICATION

Non-volatile content (2 g, 1 h, 125 °C):	51 ± 1 %
DIN EN ISO 3251	
Viscosity (23 °C):	2900 ± 400 mPa·s
DIN EN ISO 3219/A.3	
Acid value, supply form:	≤ 3 mg KOH/g
DIN EN ISO 2114	
Iodine color value:	≤ 5
DIN EN 1557	

OTHER DATA*

Oil content, triglyceride, solvent-free:	approx. 60 %
DIN ISO 6744-4	
Hydroxyl content, supply form:	approx. 0.3 %
DIN 53 240-2	
Density (20 °C, solvent-free):	approx. 1.08 g/cm ³
DIN EN ISO 2811-1	
Density (20 °C):	approx. 0.91 g/cm ³
DIN EN ISO 2811-2	
Flash point:	approx. 42 °C
DIN EN ISO 1523	

* These values provide general information and are not part of the product specification.

PROPERTIES / APPLICATIONS

General

SETAL A U 601 HV TBA is an isocyanate-modified alkyd resin with a high crosslinking density. The paint films are characterized by their good performance properties such as hardness and flexibility. They are therefore highly resistant to wear and abrasion. They also have good resistance to water and household cleaning agents. The use of the following driers is recommended:

- 0.03 % cobalt 6
- 0.60 % zirconium 18
- 0.10 % calcium 4

The metal content is always calculated on the solvent-free resin. Methyleneethyl ketoxime has proved ideal as an anti-skinning agent for these formulations. The amount required is 1.0 %, calculated on the solvent-free binder.

Wood finishes

Typical applications for SETAL A U 601 HV TBA include the formulation of coatings for indoor use, e.g. for doors and window frames and for parquet flooring. It can also be used in coatings for garden furniture, boats and other such substrates. Coatings based on SETAL A U 601 HV TBA can be matted easily with small amounts of matting agent. Combination of SETAL A U 601 HV TBA with SETAL A F 681 yields high-bodied gloss coatings.

The brushability, especially of DIY paints, can be optimized by the addition of small amounts of SETAL A U 601 TIX TBA (approx. 5 - 10 %, calculated on SETAL A U 601 HV TBA). Coatings based on SETAL A U 601 HV TBA dry to form defect-free films on most tropical woods so no special impregnation is necessary beforehand. However, given the many different types of tropical woods and their very different properties and constituents, trials should always be carried out.

Important

Depending on their viscosity, coatings based on SETAL A U 601 HV TBA can be applied by brushing, rolling or spraying. Spraying must be carried out in water-rinsed spray booths. Spray mists must be regularly removed to prevent ignition.

SOLUBILITY / THINNABILITY

SETAL A U 601 HV TBA is compatible with many solvents. White spirit low in aromatics is normally used in thinning. Compatibility should always be tested in each individual case.

COMPATIBILITY

SETAL A U 601 HV TBA is fully compatible with long-oil alkyd resins such as SETAL A F 681. It has limited or no compatibility with short and medium-oil alkyd resins and with many hard resins and chlorinated rubber. Compatibility should always be tested in each individual case.

STORAGE

When stored in its sealed containers at temperatures not exceeding 30 °C, the product will remain stable for at least 365 days.

LABELING AND REACH APPLICATIONS

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.