TUNGOPHEN® B NV

Technical Datasheet

TYPE

Condensation product based on substituted phenols and xylene formaldehyde resin, rosin-free.

USES

As an additive in alkyd coatings.

FORM SUPPLIED

Solvent-free, pale brown, hard resin supplied as lozenges.

SPECIFICATION

Viscosity (23 °C, 50% in xylene): DIN EN ISO 3219/A.3	60 ± 30 mPa·s
Softening point: DIN 53 180	110 ± 10 °C
Iodine color value 50% in xylene: DIN EN 1557	≤ 25

OTHER DATA *

Acid value, supply form: DIN EN ISO 2114	15 ± 7 mg KOH/g
Density (20 °C): DIN EN ISO 2811	approx. 1.1 g/cm³

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

Acid value is not a true acid value but is caused by phenolic hydroxyl groups.

PROPERTIES / APPLICATIONS

Additions of 1 - 3 % TUNGOPHEN B NV, calculated on the 100 % alkyd resin, greatly accelerate the through-drying and increase the gloss of alkyd coatings. Initial drying slows in proportion to the addition of TUNGOPHEN B NV. This improves the flow properties of the coating and reduces the likelihood of surface defects, even in thicker films. TUNGOPHEN B NV is usually added at room temperature as a solution in xylene.

The addition of TUNGOPHEN B NV results in yellowing. For this reason, it should not be used in white coatings. The amount used in pale-colored coatings should be kept to a minimum. Addition of the product to coatings based on medium-oil alkyd resins, e.g. SETAL® A F 48, will result in particularly significant acceleration of through-drying.

TUNGOPHEN B NV should not be used in styrenated alkyd resins, oil based coatings or oil/resin combination coatings.

COMPATIBILITY

Generally speaking, TUNGOPHEN B NV is compatible with the solvents and binders listed. However, individual trials should always be carried out to determine solubility/compatibility:

Solubility	Compatibility
aromatic hydrocarbons	drying oils
terpene hydrocarbons	cyclohexanone resins
esters	alkyd resins
ketones	maleic resins
	phenolic resins
	chlorinated rubber

STORAGE

When stored in originally sealed containers at temperatures not exceeding 30 °C, the product will remain stable for at least 730 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.