ROSKYDAL® K 40 T

Technical Datasheet

TYPE

Amine-accelerated, unsaturated polyester resin of high reactivity and latent thixotropy which is cold-curing, even around 0 °C, and yields polymers of medium flexibility.

USES

Binder for highly thixotropic knifing fillers, especially for use in vehicle refinishing.

FORM SUPPLIED

Approx. 65.5 % in styrene

SPECIFICATION

Non-volatile content (2 g, 1 h, 125 °C): 65.5 ± 1.5 %

DIN EN ISO 3251

Viscosity (23 °C): thixotropic mPa·s

DIN EN ISO 3219/A.3

Acid value, supply form: 10 ± 5 mg KOH/g

DIN EN ISO 2114

Iodine color value: cloudy, not accurately measurable

DIN EN 1557

OTHER DATA*

Curing time (25 °C – 35 °C): approx. 8 min

DIN 16 945, 6.2.2.2

Curing time (25 °C – maximum curing temp.): approx. 12 min

DIN 16 945, 6.2.2.2

Maximum curing temperature: approx. 95 °C

DIN 16 945, 6.2.2.2

Density (20 °C): approx. 1.12 g/cm³

DIN EN ISO 2811-2

Flash point: approx. 32 °C

DIN EN ISO 1523

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

PROPERTIES / APPLICATIONS

ROSKYDAL K 40 T is a thixotropic, unsaturated polyester resin which develops its full thixotropic properties during production of fillers. The resin is of medium viscosity in its supply form and is pumpable.

Fillers based on ROSKYDAL K 40 T are characterized by their good working and sanding properties. ROSKYDAL K 40 T is thus ideal for use as the sole binder in the formulation of knifing fillers for vehicle refinishing.

Formulation

Combinations of talc, dolomite/calcite, crystalline chalk and barytes with low iron content have proved suitable as extenders, with talc as the main component because it improves the adhesion to the substrate and the dry sanding properties. The more spherical extenders such as dolomite, chalk and barytes ensure dense packing. Fillers based on ROSKYDAL K 40 T can be formulated in standard mixing and dispersion equipment. If the latent thixotropy of the resin is to be fully exploited, as well as its other properties, it must briefly be heated to 55 °C, either during or after formulation. Suitable equipment for this purpose includes dissolvers, paste millers and butterfly mixers.

SOLUBILITY / THINNABILITY

Aliphatic hydrocarbons	insoluble
Esters	soluble
Ketones	soluble
Styrene	partly soluble
Toluene, Xylene	partly soluble

COMPATIBILITY

ROSKYDAL 620	compatible
ROSKYDAL E 65	compatible
ROSKYDAL K 14 M	compatible
ROSKYDAL K 27/1	compatible
ROSKYDAL K 30	compatible
ROSKYDAL K 36	compatible
ROSKYDAL K 45	compatible
ROSKYDAL K 60	compatible
ROSKYDAL K 65	compatible
ROSKYDAL K 68	compatible

STORAGE

When stored in its sealed containers at a temperature not exceeding 23 °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.