
TUBICOAT PU DNE

Chemical Structure	Dispersion of aliphatic polyester polyurethane
Appearance	White liquid
Ionic Character	Anionic
pH-Value	6.0 – 8.0
Specific Weight at 20 °C	1.0 g/cm ³
Solubility	Soluble in water at any ratio
Stability	TUBICOAT PU DNE is very sensitive to frost; temperatures around the freezing point cause irreversible changes. Product is sensitive to alkali and acids.
Storage	With a proper storage in closed original containers, the product holds for at least 12 months.

Properties

TUBICOAT PU DNE;

- forms soft, elastic, UV resistant, glossy films,
- can be used for textile/ textile lamination applications,
- is easy to colour,
- has good pilling results both on knit and woven goods,
- thanks to its good film forming properties, product gives high water column results for coatings.

Application Technique

Thanks to soft and glossy film properties, TUBICOAT PU DNE is a suitable binder for textile coating and printing applications. It can be applied by common coating techniques (knife, screen, padding etc.) on woven and denim goods.

TUBICOAT PU DNE can be mixed with

- acrylate dispersions
- silicone dispersions

to achieve special effects. We recommend to make pretrials for compatibility before industrial applications.

TUBICOAT PU DNE can be mixed with thickeners (TUBICOAT VERDICKER LP, TUBICOAT VERDICKER LP 17, TUBICOAT VERDICKER RM 1216).

Recipe proposals

Printing / Coating

TUBICOAT PU DNE	98.0 – 99.0 %
TUBICOAT VERDICKER LP	1.0 – 2.0 %
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	100.0 %

+ 10.0 % COLORMATCH pigments (for glitter prints).

Viscosity can be adjusted to 70 dPas by addition of TUBICOAT VERDICKER LP, TUBICOAT VERDICKER LP 17 or TUBICOAT VERDICKER RM 1216.

Above recipe can be applied both by printing and coating techniques. We recommend to work with coarse screens for printing processes.

It is possible to achieve glossy effects with TUBICOAT PU DNE on denim fabrics. Further calender applications at high temperature can enhance the effect.

Padding

Recommended application amount:

TUBICOAT PU DNE	50 – 200 g/l
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Drying / Fixing

We recommend drying at 100°C and fixing at 160°C for 2 min. TUBICOAT PU DNE can be used with TUBICOAT FIXIERER H 24, TUBICOAT FIX ICB CONC or TUBICOAT FIXIERER HT to obtain better fastness results. Pretirials are advised.

While using with acrylate and silicone dispersions, drying/fixing conditions should be adjusted accordingly.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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