



ROLFLEX BZ 78

WATERBORNE POLYURETHANE DISPERSION

Chemical composition

Aliphatic polyester polyurethane dispersion in water.

Chemical and physical characteristics

Appearance at 20 °C	Milky liquid
Ionic type	Anionic
Active content (%)	49-51
Density at 20°C (Kg/dm ³)	1,03 - 1,05
pH	8-10
Water solubility	Easily dispersible in cold demineralised water
Particle size (nm)	< 500

Film characteristics


Appearance at 20°C	Transparent, soft, flexible, elastic
Tensile strenght (mPa)	20-35
Elongation at break (%)	450-550
Glass transition temperature (°C)	-55
Sun and U.V. light stability	Excellent
Hardness shore	55-75 scale A

Application and properties

ROLFLEX BZ 78 is particularly suggested for the formulation of textile coatings for clothing, outwear, sportswear, fashion and technical articles for industrial applications; it can also be used as adhesive.

The product has an excellent hydrolysis resistance, a very high charge digestion and electrolites stability and an excellent mechanical and tear resistance. It also shows good bonding performance on PVC and synthetic fabrics as well as general washing fastness.

Can be also suitable for foam coating and printing application.

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Instruction for use

to improve the washing and dry cleaning fastness it is suggested to include in the finishing recipe 4 - 5 % of CELLOFIX ME , followed by polymerization at 150 - 160° C. for 60 - 90 seconds.

TYPICAL RECIPE

KNIFE COATING - FLOATING KNIFE 1mm


A)	ROLFLEX	BZ/78	parts	1000
	CELLOFIX	ME	parts	40
	VISCOLAM	L/82	parts	10 - 20
B)	ROLFLEX	BZ/78	parts	500
	ROLFLEX	AP	parts	500
	CELLOFIX	ME	parts	40
	VISCOLAM	L/82	parts	10 - 20
C)	ROLFLEX	BZ/78	parts	500
	TEXTOL	110	parts	500
	CELLOFIX	ME	parts	40
	VISCOLAM	L/82	parts	10 - 20

FOAM COATING

To obtain a stable mechanical foam with ROLFLEX BZ/78 it is recommended to add a foaming agent and a foam stabilizer such as TEXTOL F/STA and VISCOLAM STA.

The viscosity of the foam paste may be adjusted by the addition of the thickening agent VISCOLAM 115 NEW.

It is also possible to include in the recipe fillers, such as talc, kaolin, TiO₂ etc, which tend to reduce the elasticity of the film. Colouration may also be obtained by the addition of pigment dispersions, type Neoprint. It is recommended to filter before foam application.

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PIGMENTED FOAM COATING

1) Pre-treatment by padding with:

LAMGARD	FT/60	g/l	10
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- Dry at 100° C.

2) Foam coating (Knife/Roller) to deposit 25 - 35 g/m² of solids. (Foam density ~ 200 g/l.)

ROLFLEX	BZ/78	parts	500 - 1000
FOMEX	84	parts	40 - 0
TEXTOL	F/STA	parts	100
VISCOLAM	STA	parts	15
CELLOFIX	ME	parts	40
NEOPRINT	PIGMENTS	parts	0 - 60

- Dry at 90 - 100° C.
- Calender at 50° C.
- Thermo - fixation at 150 - 160° C.
- Final finish, either padding or coating, with PU dispersion or silicone elastomer .

TRANSPARENT FOAM COATING

1) Pre-treatment by padding with:

LAMGARD	FT/40	g/l	10
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- Dry at 100° C.

2) Foam coating (Knife/Roller) to deposit 25 - 35 g/m² of solids. (Foam density ~ 200 g/l.)

ROLFLEX	BZ/78	parts	500 - 1000
FOMEX	84	parts	50 - 0
TEXTOL	F/STA	parts	100
VISCOLAM	STA	parts	15
CELLOFIX	ME	parts	40



- Dry at 90 - 100° C.
- Calender at 80 - 150° C.
- Thermo-Fixation at 150 - 160° C.
- Final finish, either padding coating, with PU dispersion or silicone elastomer.



Storage and packing

The product should be stored in a dry place at temperature between 5 - 35 °C and far away from heat

Storage stability: 12 months from date of production.

Packing: 120 kg plastic drums, 1.000 kg plastic tank.

Notes: The use of the product in specific application must be tested in advance to check suitability.

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