

# D. K. ENTERPRISE

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## PU - 100

### Water Soluble Poly Urethane Resin For Textile Finishing

#### PU-100 :

PU-100 is used as a Raw Material its properties are as below :

Appearance	:	Transparency High Viscosity Liquid
Component	:	Self Solubility modified Polyurethane
Solid	:	Approx. 100 %
Molecular Weight	:	About 30,000
Melting Point	:	0 ~ 5 ° C
Viscosity	:	About 50,000 cps/ 20 ° C
Ionic Activity	:	Nonionic
pH	:	Neutral
Stability	:	2 Year OR More

#### PU-20 :

PU-20 is a diluted product of 20% Conc. its properties are as below.

Appearance	:	Transparent Liquid
Solid	:	20 %
Ionic Activity	:	Nonionic
pH	:	Neutral
Stability	:	One Year Or More

Normally, standard product is 20%, But 15% product may be able to use but you should test at your side before large trial.

#### Dilution Method from PU-100 to PU-20 :

(1)	PU-100	20 Kgs
(2)	Water	80 Kgs
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	Total	100 Kgs

(1)	(2)	(3)
Normal Temp. (15 ~ 35 ° C)	=>Mixing =>	Pass to filter =>Packing

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## **Characteristics of PU-20 (20 %) :**

- 1) Most Suitable for Synthetic Fabrics like Polyester, Nylon and their blends.
- 2) Imparts Soft & Smooth handling for Polyester, Nylon and Polyester/Cotton & Polyester/Viscose fabrics. Improves Drape / Fall of fabric.
- 3) Non-Yellowing by heat, light & NO<sub>x</sub> gases.
- 4) Light & Rubbing Fastness does not decrease.
- 5) Low Foaming.
- 6) Can be used easily with Amino Silicone Emulsion and thus can reduce cost.
- 7) Imparts Excellent Resilience to fabrics.

## **Examples :**

1) Soft & water absorbency finishing for Polyester and Nylon Woven & Knitted fabrics. It also improves Drape.

PU-20            20 Gms/Liter

Bath Ratio 1 : 30 X 1 ~ 2 Min.

Dip or Pad => Dry

2) Provides water absorbency finishing for Amino Silicone Softener Mix formulation as under

Amino Silicone Emulsion	100Kgs
PU-20	<u>20 ~ 25Kgs</u>
Total	120 ~ 125Kgs

3) Cost Down for Amino Silicone Emulsion Mix formulation as under

Amino Silicone Emulsion	100Kgs
PU-20	75Kgs
Water	<u>25Kgs</u>
Total	200Kgs

Incase of 10 ~ 12 % Silicone Contents, total solid contents become 15 %.

**ORIGIN JAPAN.**