

# D. K. ENTERPRISE

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## PU-R80

**Water Soluble PolyUrethane Resin Reactive (Self crosslink) Type 80 % Conc.**

### Properties :-

|               |  |
|---------------|--|
| Component     | : Water Soluble PolyUrethane Prepolymer  |
| Solid Content | : 80 %                                   |
| Appearance    | : Transparent (Slightly Yellowish) Paste |
| Viscosity     | : 8,000 ~ 10,000 cps                     |
| pH            | : 4 ~ 6                                  |
| Ion activity  | : Nonionic                               |
| Solubility    | : Soluble in water                       |
| Stability     | : One Year Or More                       |

### Dilution :-

Dilution Method from 80 % product PU-R80 to 20 % Product PU-R20 :  
PU-R80 + IPA + Water mix as below :

PU-R80 = 25 Parts  
IPA = 9 Parts  
Water = 66 Parts

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Total = 100 Parts

This will make PU-R20 which is a 20 % Solid content product and can be used as Std.

Product, Ready to use product & mixing with other softeners like Amino Silicone Emulsion.

### Characteristics :-

This softener is based on special reactive polyurethane. The reactivity of these products is reduced by hydrophilic blocking groups in order to ensure adequate storage stability. During the application blocking groups are split off by temperature and due to the presence of special catalyst, the reactive isocyanate groups released makes film on the surface of the fibers and yarn which is not easily visible. PolyUrethane softeners provide elastic and rubbery handle on fabrics.

- 1) It Imparts sparingly handling, air permeability to cotton with use of 4 ~ 10 %.
- 2) It Imparts Soft handling for P/C, P/V, P/W with use of 1 ~ 4 %.
- 3) It Imparts Water Absorbency.
- 4) It gives washing durable finish, which is almost permanent finish.

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## **Application :-**

It is applied by usual finishing process as below :

Dipping Or Padding → Drying → Curing (At stenter Temp. Around 160 - 170 Degree Cent.)

Usage is 1 to 4 % (About 10 - 40 Gms / Ltr) of PU-R20.