

## How to Build the Hand of Cellulosics

In some cases a resin after-treatment is desired for cellulosics. **Orcoset Resin CN™**(Non-durable/Nonionic), **Orco Padding Resin FGT™**(Durable/Nonionic PVA-H Type), and **OrcoRez G-NC™**(Pre-catalyzed glyoxal type) are described as follows:

### ***Orcoset Resin CN™***

**Orcoset Resin CN™** is a non-durable, non-ionic polyvinyl acetate homopolymer developed for the textile industry to produce maximum stiffness to cotton, synthetics and blends. The dry-rate has been modified to prevent excessive build-up on pad rolls, especially in a three-roll stock. **Orcoset Resin CN™** may be used alone or compounded with other finishing agents such as optical brighteners, starches, or corresponding catalysts.

**Orcoset Resin CN™** may be used at concentrations ranging from 2.0% owb for lightweight fabrics to 10.0% owb for moderately firm hands. For extra stiff hands, as much as 15.0% owb to 20.0% owb weights is frequently used.

### ***Orco Padding Resin FGT™***

**Orco Padding Resin FGT** is a durable, versatile, self cross-linking additive for special applications requiring dimensional stability. It can be used in combination with acrylic resins for added stability. It is used as an additive to improve washfastness of pigment print and pad operations, and as a resin finishing agent for cotton, rayon, and polyester/cotton blends. It provides shrinkage control on cellulose and cellulose/synthetic blends and is a hand-building additive for all fibers. Dry cleaning fastness may also be improved on many pigment applications by the use of 0.25 to 2.0 oz./gal.

### ***OrcoRez G-NC™***

**OrcoRez G-NC™** is a pre-catalyzed glyoxal-type resin applicable to cellulosics and synthetic/cellulosic blends such as polyester/cotton. This product offers good shrinkage control and excellent durable press characteristics.

A general application procedure for **OrcoRez G-NC™** is as follows:

1. Make sure goods are scoured clean of other processing chemicals and show a neutral pH.
2. In a padding bath at 130°F(54°C) at about ½ the amount of total final bath volume, add the following in order shown:
  - 0.1-0.3 % owb      **Orcowet PA™**(pre-diluted)
  - 10-20 % owb      **OrcoRez G-NC™**
  - 2-4 % owb      **Orcosoft NP™**
3. Stir the auxiliaries well while bulking bath to 100%.
4. Maintain bath temperature of 70-85°F(21-29°C)
5. Pad goods at 60-70% pickup for synthetic/cellulosic blends and 80-100% for 100% cellulosics.
6. Dry and then cure at 300°F(149°C) minimum for 1 ½ minutes.