

## WATERPROOF AGENT C8303

**FLUORO CARBON BASED SUPER GRADE W/R, O/R & S/R AGENT (FOR COATING RESIN) GENERAL TYPE (STIFF TOUCH)**

**ENVIRONMENT-FRIENDLY PRODUCT (PFOS & APEO FREE)**

C8303 doesn't contain APEO(Alkyl Phenol Ethylene Oxide) inducing endocrine disrupting chemicals. It doesn't have inflammability, volatility. It is a environment-friendly fluoro carbon base water/oil repellent.

C8303 is a fishing product for durable W/R, O/R finishing of textiles made of synthetic and cellulose fabrics, especially Polyester, Nylon, Acryl, Spandex and their blends.

C8303 is a good low-temp(150°C) curing performance. But as temp is go up, it is more effective.

C8303 has a good Internal bond strength with coating resin (PU, Acryl). C8303 can be used for all kind of fabrics, non woven fabric, paper, and synthetic leather.

The treated effect is continued after dry cleaning or washing.

### <PHYSICAL PROPERTIES>

Appearance : Milky yellow  
emulsion Effective component : Standard -  
30% ± 1 Ionic nature : Slightly cation  
pH : 4 ± 2  
Solubility : Easily in water

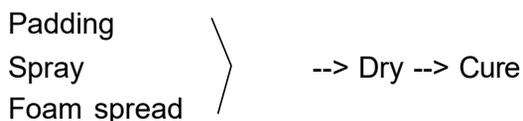
### <CHARACTERISTIC>

1. C8303 is PFOS & APEO free.
2. C8303 is a environment-friendly product.
3. C8303 doesn't have inflammability, volatility by reducing VOC (Volatile Organic Compound) content.
4. C8303 can be applied to low-temp(150°C) curable finish.
5. C8303 is suitable durable water repellent agent for Polyester, Nylon, Acryl, P/C, P/NP, and Spandex by usage of small quantity.
6. C8303 has a good Internal bond strength with coating resin (PU, Acryl)
7. C8303 has a good compatibility with other auxiliaries because of slightly cationic nature.

8. C8303 maintains stable emulsion by good physical stability to mechanical condition as high temperature, high pressure and high speed etc.
9. C8303 also has wide pH stable range but weak acid helpful for absorbance.
10. C8303 has not trouble caused by gum-up, separation, break of emulsion.

### <TREATING METHOD>

1. C8303 can be diluted with water and treating process is



\* Adjust of bath(In the case of mixing with penetrating agent, resin and other finishing agent)

- 1) Put water in bath by 50% of total solution.
- 2) Agitate enough after put a other chemicals according to maker's recommendation.
- 3) Add 8303 to prepared bath and agitate slowly.

### <APPLICATION>

Fabric	Padding	Tentering
Polyester	30-50 g/l	160°C X 60sec
Nylon	30-50 g/l	170°C X 60sec
Acryl	40-50 g/l	170°C X 60sec
P/C(=T/C)	40-60 g/l	160°C X 90sec
P/NPP	40-60 g/l	160°C X 60sec
P/U(Spandex)	40-60 g/l	160°C X 90sec
Cotton	40-60 g/l	160°C X 120sec

### <PREPARATION FOR FINISHING>

1. Fabrics
  - 1) Remove impurities by pre-treatment procedure. Alkali, spinning oil, sizing agent and other surfactant are bad influenced to repellency.
  - 2) After dyeing, remove completely a surfactant as levelling agent, dispersing agent and penetrating agent, etc.

Reasonable pH condition is 5-6 and avoid from alkaline solution, it can be the factor of Gum-up and low water repellency.

## 2.Bath

- 3) Put water in bath by 50% of needed solution
- 4) Put resin, softener and etc according to the quantity consumed
- 5) Put reasonable amount of 8303 and check the bath condition (pH, stability...) If pH condition is exceed 7.0, add acid. Stability is problem, add IPA.

## <OTHERS>

1. Avoid from mixing with anionic auxiliaries.
2. Fixing agent of reactive dyes can be influenced to water repellency.
3. Best repellency effect is needed proper repellent agent and catalyst.
4. Treatment with antipastic agent is needed careful consideration.
5. Remove floating matters in bath or some over-flow is better.
8. When bath color is changed by dyes come out from fabric, bath cleaning is needed.
9. Small size and auto-feeding bath is reasonable for W/R finish because it is effective to prevent ending or tailing.

## <STORAGE AND HANDLING>

1. Store in -5°C ~ 40°C. Avoid from direct fire and light.
2. Close a cover fasten.
3. Low toxic but prohibit contact with the skin, eyes, inhalation and swallowing.

## <OTHER INFORMATION>

Don't eat this product and further detail contents is in MSDS.

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The above information and data are for reference only. Customers should do laboratory samples in advance to determine the specific process and dosage. The company only to product specifications, quality consistency to guarantee. Customers due to the addition of other additives, or due to process and fabric losses, the company is not responsible.