



## PolyFox™ PF-154N Nonionic Fluorosurfactant for Aqueous Coatings and Cleaners

**PolyFox PF-154N** is an **environmentally preferred**, water-soluble nonionic fluorosurfactant based on OMNOVA Solutions' platform of oxetane polymers. This PolyFox fluorosurfactant is used in water based coatings to improve flow, leveling, and surface appearance. When properly formulated, this PolyFox fluorosurfactant may be used to replace telomer- based and other conventional fluorosurfactants such as FC-129 from 3M. PolyFox fluorosurfactant can greatly reduce foam and air entrainment, compared to conventional fluorosurfactant technology.

### Special Features and Benefits:

- Excellent water solubility with crystal clear solution for use in water-borne systems.
- Coating friendly with very low foaming tendency.
- Very small micelle size for electronics applications.
- Efficient- Less than 1% add-on for most applications.
- Safe- Minimal environmental, health and safety risks.

### Typical Physical Properties of PolyFox PF-154N

Properties	PolyFox PF-154N
Appearance	Clear
Viscosity @ 77°F (cps) (Brookfield #21 spindle)	51
Color	Colorless to light straw
% Non volatile (Wt)	25
Type	Nonionic Fluorinated Polyether
Solvent	Water
Ionic character	Nonionic
pH	4 – 4.5
Specific Gravity (g/ml)	1.047
Flash Point (Pensky Martens Closed Cup)	>200°F
Surface Tension (mN/m)	28 (pure material @ 1000 ppm in distilled water)
Ross-Miles Foam Test (Foam height in mm)	Initial: 56
ASTM D1173-53 (49°C @ 1000 ppm in distilled water)	After 5 minutes: 4
Solubility in water	Dispersible in all proportions
Note: Not actual product specifications	

### Use Recommendations:

**PolyFox PF-154N** can be added by stirring directly into waterborne coatings. Typical use levels are from 0.05% to 1%, but all fluorochemicals are concentration sensitive and each system is unique. For screening purposes, a range of concentrations should be tried. Optimum performance is often achieved at a very specific concentration and performance on either side of this optimum level - too much or too little - can interfere with the desired effect.

### Learn More

Find out how **PolyFox** fluorosurfactants can improve appearance and performance in your coatings. Call Eric Rall at (714) 273-9182 or email [eric.rall@omnova.com](mailto:eric.rall@omnova.com) for samples, literature, or technical assistance or visit our website at [www.omnova.com](http://www.omnova.com)

#### NOTE:

Although data supplied above are believed to be accurate, each user is advised to make his or her own determination as to whether the described product(s) is/are appropriate for a particular use or application, whether such a use will comply with all applicable laws or regulations, or whether such a use will not infringe the intellectual property rights of third parties.



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