



innovative chemical technologies, inc.

## **FLEXIWET PD-15**

### **TECHNICAL DATA SHEET**

- ◆ **Low Foaming, Partially Fluorinated Surfactant**
- ◆ **Powerful additive to improve the wetting of water based formulations, even if the substrate is oil-contaminated**
- ◆ **As an additive, actively creates smooth, uniform, defect-free surface to a coating, film, or finish at the air interface. Excellent leveler**
- ◆ **Allows for uniform coatings at reduced thickness, which reduces drying time**
- ◆ **Water Based – can be used in Very Low VOC applications**
- ◆ **Readily Dilutes in Water/Alcohol/Glycol Mixtures with Excellent Shelf Stability**
- ◆ **UV Resistant – usable in exterior or interior applications**
- ◆ **Does not impart color, or change optical properties of a coating**

## **APPLICATIONS**

- ◆ **Lotions for Skin (sunscreens, skin care creams, etc)**
- ◆ **Nail Color Coats and Topcoats**

## **TECHNICAL INFORMATION**

Flexiwet PD-15 is a problem-solver in many cosmetic preparations. As a wetting agent, it's powerful enough to overcome common contaminants (sweat, sebum, etc) to ensure uniform coverage without the need for prior cleaning/preparing of the skin. It's also a powerful leveler, which means a thinner coating can be applied uniformly and still be smooth; thinner coatings in turn reduce the drying time. As opposed to hydrocarbon products, fluorinated materials in general impart a softness/suppleness to skin without also bringing a greasy feel. And in some specific preparations, the inorganic particulate sunscreen efficiency has been reported, due to better surface orientation.

When used in nail color coats and topcoats, typical benefits cited include gloss enhancement and coating smoothness due to improved leveling, more uniform deposition of the resin (polymer) system due to better film formation, tack reduction, and an ability to keep airborne contaminants out of the wet coating while it's drying.

## **FORMULARY**

Recommended use rates for Flexiwet PD-15 vary from 0.1-0.3%, as delivered, in water base systems to 0.5-1.0% in neat or solvent borne systems. Dilution of this material in hard water can result in precipitation and should be avoided. If diluted version are prepared and stored for extended periods, addition of a preservative is recommended.

## **TYPICAL PROPERTIES**

Appearance	Amber Emulsion
Density @ 25 <sup>0</sup> C	1.05 +/- 0.02 g/ml (8.8 lbs/gal)
pH (as is)	8-10
Water Solubility	Dispersible
Boiling Point	Approx. 100 <sup>0</sup> C
Actives:	14%

## **PACKAGING/HANDLING**

Flexiwet PD-15 is available in totes (Net Wt. 2205 lbs),  
55 gallon drums (Net Wt. 441 lbs), and 5 gallon pails (Net Wt. 40 lbs).

DOT Classification is Non Regulated.

Product separates when thawed after freezing; thaw/mix thoroughly before use.

**Do not freeze.**