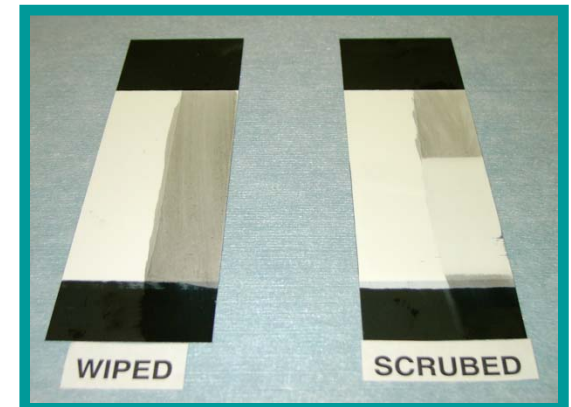


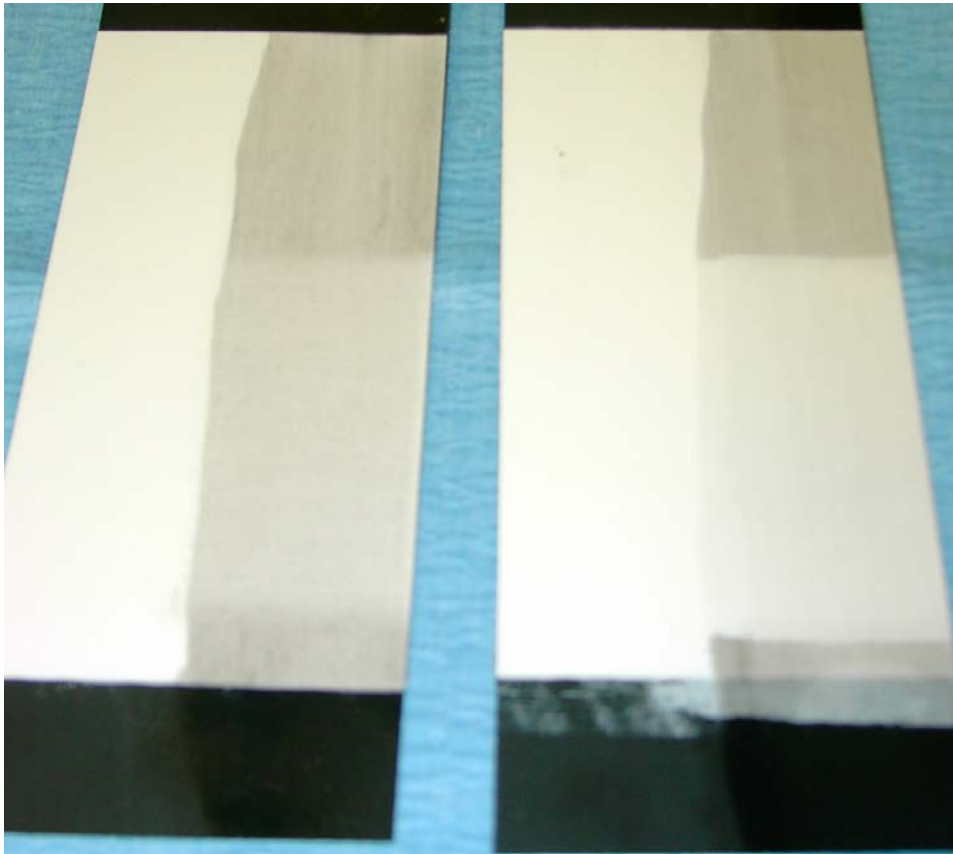


Cleanability Test (modified ASTM D4828)



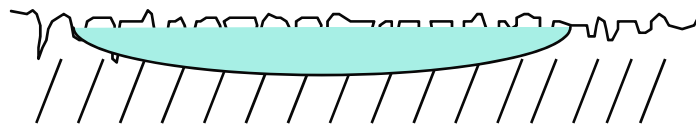


Anti-soil

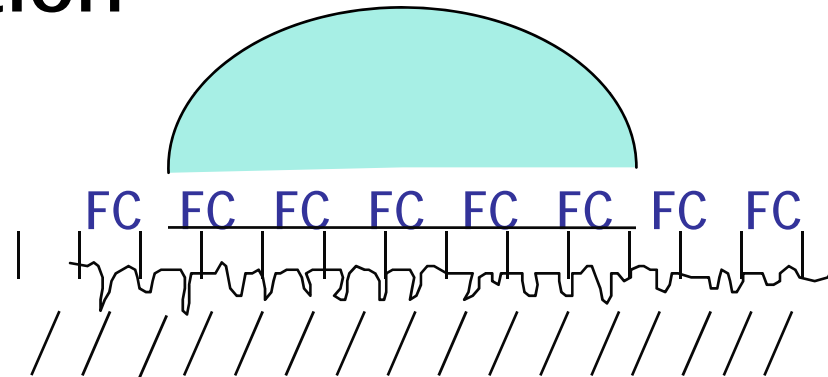




Fluorochemical Protection



Unmodified
Absorbs
Stains



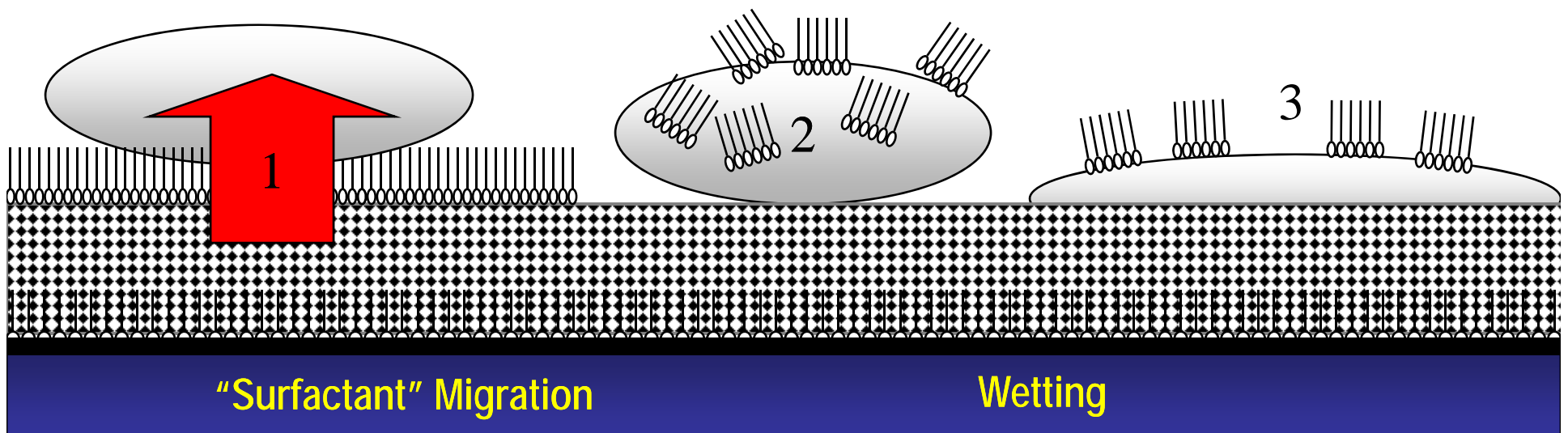
Modified with Fluorochemical
Repels Stains!

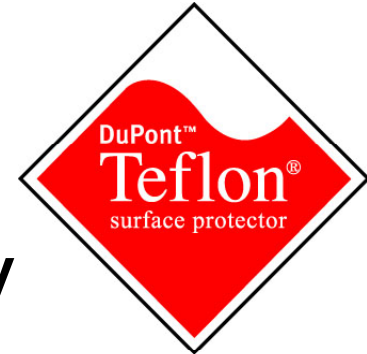
Preventing Stains From Penetrating Coating. Keeping Surfaces Cleaner!



Re-wet

- Mechanism of re-wet:
 1. Transfer to the upper liquid layer occurs...
 2. Reduces surface tension of new layer (which now contains surfactants), and creates a "vacancy" at the top of the coating, exposing it to the new layer....
 3. Wetting, penetration, and adhesion...





Surface coating and coatability

- Good wetting
- Good adhesion
- Surface energy of the coating and the substrate need to be compatible



Without surfactant

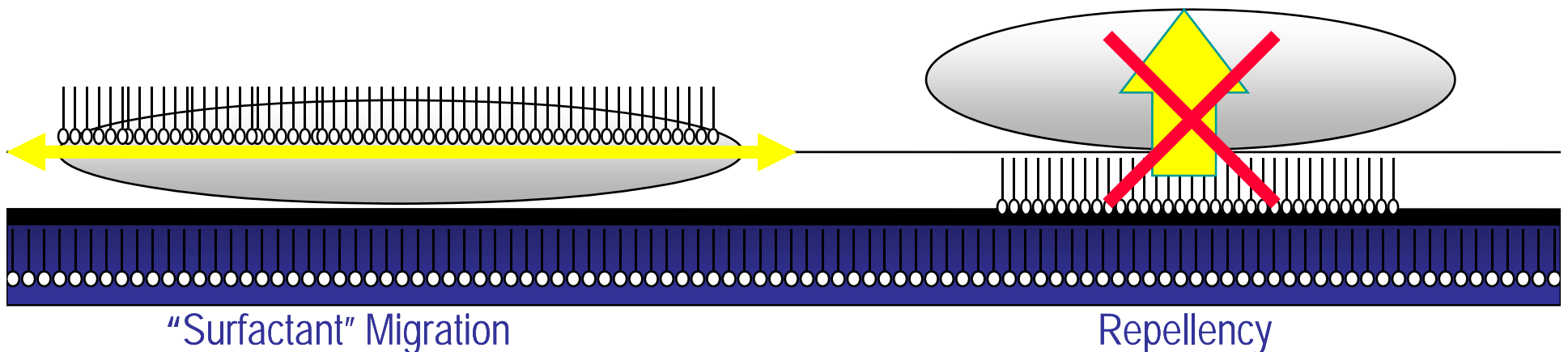


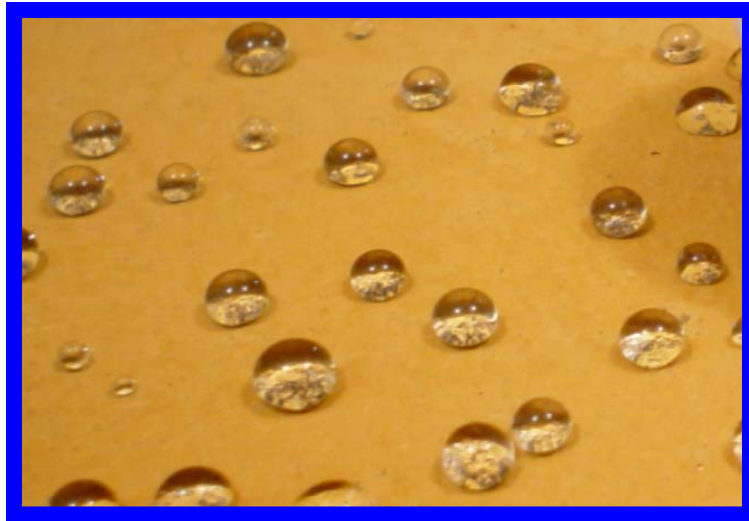
With surfactant



Re-wet and Surface Modifiers

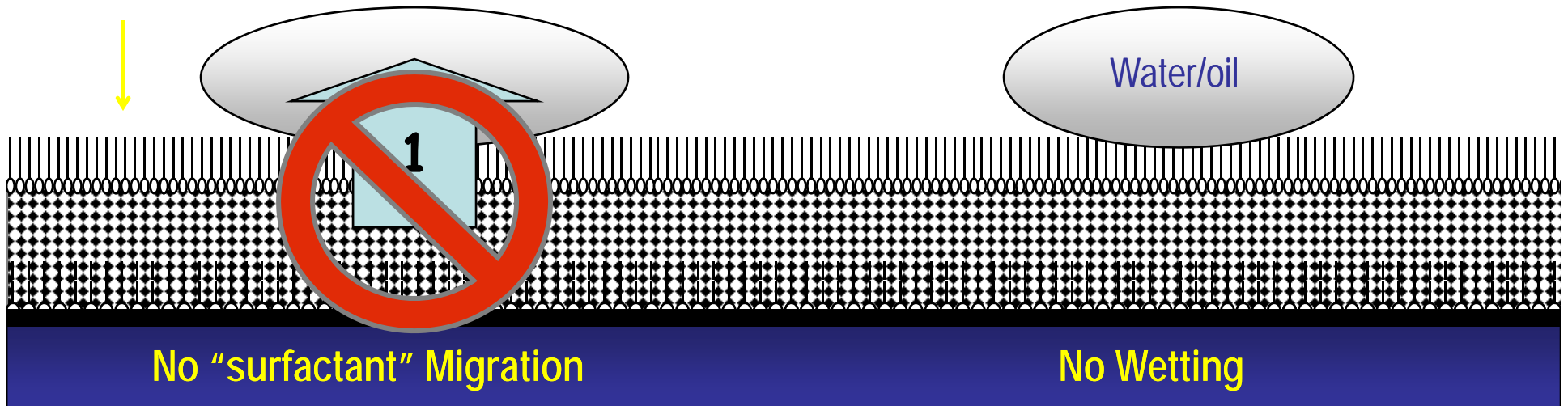
- Generally, surfactant-based additives encourage re-wet of a surface, or coating. Transfer to the upper liquid layer occurs (This is how the flow modifying coatings additives work!)
- In the case when the surfactant is either strongly adsorbed, or chemically bonded to the surface. (This is how the repellent coatings additives work!)





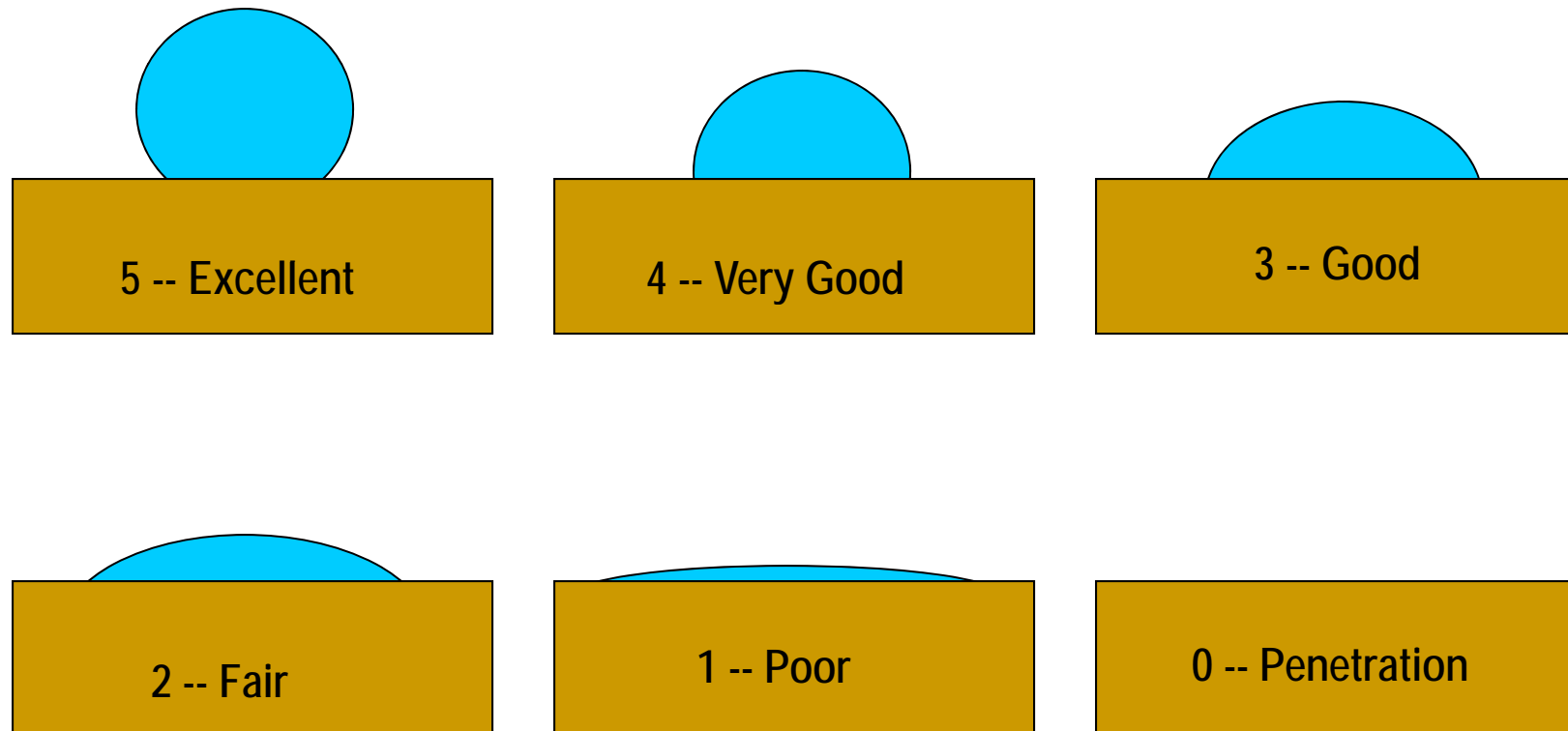
Repellency

Fluoroadditives





Repellency Rating for Hard Surfaces Based on Contact Angle



DURA COAT
PRODUCTS INC

