INVISIPRINT®

TECHNICAL DATA SHEET

AN INVISIBLE FINGERPRINT COATING

OVERVIEW

InvisiPrint® is a unique coating solution that hides the visibility of fingerprints on product Surfaces using a proprietary surface modifying technology. Traditional Anti-Fingerprint coatings use fluorinated materials that result in high oleophobicity. InvisiPrint® is different because it does not repel oil but instead spreads at the surface allowing light to pass through the oil on the surface. This oleophilic approach changes the optical properties of a fingerprint making it mostly invisible at all viewing angles.

TECHNOLOGY

InvisiPrint® employs silane-based technology to adhere to glass in thin, but durable layer. The coating uniquely combines oleophilic properties with hydrophobic properties that work in concert. The oleophilic properties is the primary mechanism for hiding fingerprints while the hydrophobic elements provide excellent easy-to-clean properties.

TECHNICAL SPECIFICATIONS

Chemistry
Chemical Family: Organosilane
Room Temperature State: Liquid
Storage Recommendations: Amber Glass Bottle, 10° C – 45° C
Shelf Life: 1 year at neutral pH (storage)
Shelf Life: 1 week at pH 2 (application)
Product Description: InvisiPrint applied via atomized spray machine

Material Characteristics
Thickness: 10-20 nanometers
Based in Ethanol
Fluorine Free
Static contact angle: Water 85° / Diiodomethane 35°
Fingerprint hiding**: 800% improvement over traditional Anti-Fingerprint coating
Ease of clean: **200% enhancement over traditional Anti-Fingerprint coating
Eraser Abrasion, 1500 cycles, 1kg force: 10 degree drop in water contact angle
Pencil Hardness: > 9H
Transparency: ≥ 93%(*on Gorilla Glass)

Appliance
Atomized Spray preferred, other wet based deposition available: dip or wipe
Heat Cure – 10 minutes at 120 degree Celsius

Handling
Chemical Stable at normal temperature and storage conditions
Avoid: Heat, flames and sparks

** Fingerprint hiding tested using a Colorimeter (delta E) or Spectrophotometer (delta haze).

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