FluorAcryl™ 6968 Product Information

Description:

Oleophobic UV-curable fluorinated aliphatic hexafunctional urethane acrylate coating with exceptional resistance to solvents, stains and oils and excellent adhesion to wood, glass, plastics and metals. Coating materials may be adjusted for specific application methods.

Applications:

Screen print - mix thoroughly, use directly and cure immediately.
Spin Coat - dilute to 10-20% with Freon 225 or Vertrel™ XF, use full or substantial flood, and cure immediately.
Dip Coat - Dilute to 5-20% polymer with Freon 225 or Vertrel™ XF, withdraw article at a uniform withdrawal rate of 1-2 mm/sec, and cure immediately.
Cure under nitrogen with 120 watt/cm Hg lamp at 6 meters/minute. UV Dose should be 110 mj/sq-cm based on 50 micron film thickness. Films reach maximum properties in 24-48 hours after cure.

Material Test Conditions:

Application method	draw bar
Film thickness	50 microns
Cure source	48 watts/cm2 Mercury Lamp
Belt speed	6 meters/minute
UV dose	110 mj/cm2.

Cured Properties:

Static contact angle to water	> 115°
Contact angle to mineral oil	> 75°
Roll off angle to mineral oil	< 1°
Tabor CS17 1000gram abrasion	< 87 mg after 2000 cycles
Tabor S33 500 gram wear through	> 125 cycles
MEK resistance	> 200 double rub cycles
Stain Resistance (ISO 4211, 5 = no stain)	5, 5, 5, 3 (tea, coffee, water, iodine)
Magic Marker	beads, 100% removed by alcohol
ASTM D3363 pencil hardness	8H
Pendulum Hardness (ISO 1522)	> 300 seconds
Reverse Impact (inch/pounds)	< 2
Glass transition point (Tg)	148°C

Contact:

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