



REPELFLEX[®] SOFT-TOUCH

SOFT TOUCH COATING FOR PLASTICS

OVERVIEW

RepelFlex is a family of UV curable, transparent, flexible, coatings that are designed for a variety of materials. RepelFlex Soft-touch (ST) is designed specifically for application to plastics, providing a soft and silky feel to plastic substrates. In addition to having excellent adhesion, RepelFlex ST is a UV curable and highly durable, anti-microbial coating. RepelFlex ST is friendly to the environment as it contains no solvent or Fluorine.

APPLICATIONS

RepelFlex ST is designed to provide a soft and silky feel to both soft and rigid plastics while providing protection against microbial growth and abrasion. Ideal applications include:

- Mobile device cases and accessories
- Laptop and tablet cases
- Wearable electronics
- Other consumer and industrial applications where the haptics of a product are critical

TECHNOLOGY

The unique characteristics of RepelFlex ST result from a combination of proprietary polymers with distinct phases and properties. Balancing the ratio of these polymers is the key to enabling the unique soft and silky feel, and its long-lasting resistance to microbials. RepelFlex ST can be applied using simple atomized spray equipment followed by a rapid cure through the exposure to UV light and is formulated to be solvent and fluorine-free.



TECHNICAL DATA SHEET

Product Information
Product Description: RepelFlex ST is a solvent and fluorine-free, UV curable, flexible, soft touch coating for plastic surfaces.
Chemical Family: Organosilanes / Acrylates
Room Temperature Physical State: Liquid
Storage Recommendations: Prevent exposure to light and maintain 10° C – 45° C.
Shelf Life: 1 year

Material Characteristics
Target Coating Thickness (dry): 15-30 um (micrometer)
Solvent-free
Fluorine-free
Alcohol Resistance Test: ASTM D4752-03 – Pass – No color transfer or discoloration on surface
Pencil Hardness: ASTM D3363: 2B (on standard PC)
Rotary Taber Abrasion: ASTMD4060 (H22 Wheel) : < 5% mass loss
Gloss Value (60°): ASTM D523 : < 2.5

Application
Atomized spray preferred.
UV curing is achieved at 1,000-1,250 Joules/cm ² using a class "H" lamp.
For some applications a short bake at 50-70°C is recommended prior to the UV cure step.

Handling and Storage
Follow good standard industry hygiene practices. Apply in a well-ventilated area. Wear appropriate personal protective equipment (PPE).
Avoid: Exposure to heat, flames, sparks and other sources of ignition
Store in tightly closed opaque containers under normal warehouse conditions.
Stable at normal storage temperatures and conditions for up to one year
See RepelFlex ST SDS for further information

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