



FLUORO-SEAL



SURFACE-MODIFICATION FOR IMPROVED WETTING AND ADHESION OF COATINGS, ADHESIVES, AND INKS

A Durable Surface-Modification Treatment for Plastic Products That Permanently Increases Adhesion and Wettability Properties

SURFACE-MODIFICATION FOR ENHANCED ADHESION

- Especially well suited for three-dimensional products such as bottles, containers, molded parts, films, and roll goods materials
- Facilitates treatment of a wide variety of plastic and rubber materials for improved decoration, painting, and adhesive assembly
- Enables use of environmentally friendly and regulatory compliant water borne systems
- Greatly improves surface acceptance of a wider variety of coatings, adhesives, and inks

EXAMPLES OF PLASTICS AND RUBBER AMENABLE TO SURFACE-MODIFICATION

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|-----------------|-----------------|-------------|-----------|----------------|
| ▪ Polyethylene | ▪ UHMW-PE | ▪ Polyester | ▪ PVC | ▪ Nitrile |
| ▪ Polypropylene | ▪ Acrylic | ▪ Kevlar® | ▪ Kraton® | ▪ TPE |
| ▪ Polystyrene | ▪ Polycarbonate | ▪ Nylon | ▪ Butyl | ▪ Polyurethane |

COATINGS AND ADHESIVES THAT CAN BE APPLIED TO THE ABOVE SURFACE-MODIFIED MATERIALS

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|-----------------------|----------------|------------|---------------|------------|
| ▪ Latex (water borne) | ▪ Polyurethane | ▪ Polyurea | ▪ Polysulfide | ▪ Acrylics |
| ▪ Epoxy | ▪ Novolac | ▪ Silicone | ▪ Lacquer | ▪ Others |

SOME APPLICATIONS OF ENHANCED ADHESION TREATMENTS

PRODUCTS	WHY TREATED
Polyolefin automotive fascia & parts	Paint adhesion
Bottles, drums, tanks, and assorted containers and parts	Permanent surface-modification to improve decoration and label adhesion
Halar® (ECTFE) film	Adhesive bonding for use as lining material
Irregularly shaped articles and molded parts	Adhesive assembly, improved decorative properties, permanent surface-modification for difficult-to-flame or corona-treat items
Geomembranes	Enables seaming with adhesives and spray coating
Industrial fabrics	Adhesive assembly of composite structures, laminates to other substrate materials, permanently improves decorative properties
HDPE pallets	Adhesion of slip-resistant coatings
Polypropylene wheel hubs	Facilitates adhesion to cast PU
Small mascara tubes	Permanently improved surface-modification for adhesion of inks and decoration
Rotomolded polyethylene tanks	Facilitates adhesion of epoxy interior barrier coatings and exterior decorative/protective coatings
Spectra®/Dyneema® UHMW PE fabric	Sailcloth via adhesive lamination to aramid film
HDPE/foam sandwich panels	Adhesion of core foam to olefin sheets
Polyethylene foam	Adhesion to surfaces for insulation and cushioning
Polyolefin aquiculture netting	Adhesion of antifouling coating
Plastic medical components	Adhesion of antithrombic coatings
Nonwoven polyolefin fabric	Facilitates spray coating and incorporation in laminates, permanently improved decorative properties
Toys molded in polypropylene	Facilitates decoration
Polyolefin pipes	Facilitates tight, permanent adhesion to PU foam insulation
PP fibers	Facilitates bonding in composite material such as concrete or various resins



FLUORO-SEAL
TRANSFORMING PLASTICS

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