Adhesives Formulary Handbook (Reprint)
<table>
<thead>
<tr>
<th>Code</th>
<th>ENI41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format</td>
<td>Paperback</td>
</tr>
<tr>
<td>Indian Price</td>
<td>1275</td>
</tr>
<tr>
<td>US Price</td>
<td>125</td>
</tr>
<tr>
<td>Pages</td>
<td>600</td>
</tr>
<tr>
<td>ISBN</td>
<td>817833061X</td>
</tr>
<tr>
<td>Publisher</td>
<td>Pacific Business Press Inc.</td>
</tr>
</tbody>
</table>
Adhesives surround us in nature and in our daily lives. Adhesive, or glue, is a mixture in a liquid or semi-liquid state that is capable of holding materials together by surface attachment. An adhesive is a compound that adheres or bonds two items together so as to form a single unit. Adhesives may come from either natural or synthetic sources. Adhesives and sealants virtually touch every part of our lives. Some modern adhesives are extremely strong, and are becoming increasingly important in modern construction and industry. A large and growing number of adhesives are available in the market. Adhesives for this growing market range from the simplest glues and mucilages for furniture making and repair, to metal to metal bonding for frame construction. There is no end in sight to the new materials, new formulation, and new uses to which adhesives will be put in the future. Formulations generally are compounded to satisfy a special need or needs. Therefore, uniformity of neither product nor end use exists. Applicators of different adhesives are designed according to the adhesive being used and the size of the area to which the adhesive will be applied. The adhesive is applied to either one or both of the materials being bonded. The pieces are aligned and pressure is added to aid in adhesion and rid the bond of air bubbles. Adhesives are of great use across innumerable industrial and commercial applications.

Some of the fundamentals of the book are water based industrial type adhesives, home construction and related adhesives, water based wallpaper adhesive, fabric adhesives, water based adhesive for bonding non-woven fabric to non-woven fabric by knife coating, film adhesives, water based food packing adhesive for bonding, flocking adhesives, foam adhesives, water based adhesive for bonding urethane, industrial adhesives, bag seam and bottom paste adhesives, solid fiber, fiberboard and corrugated board adhesives, packaging adhesives etc.

This indispensable book contains numerous essential adhesive formularies distinguished by application. This book will be an invaluable resource to its readers, upcoming entrepreneurs, scientists, existing industries, technical institutions, etc.

Content:
INTRODUCTION

SECTION 1: WATER-BASED INDUSTRIAL TYPE ADHESIVES

1. HOME CONSTRUCTION AND RELATED ADHESIVES

Water-Based Wallpaper Adhesive (Vinyl Acetate/Starch)
Water-Based Adhesive for Bonding Vinyl Wallcovering (Vinyl Acetate/Starch)
Water-Based Adhesive for Bonding Polyvinyl Chloride Wallcovering to many Surfaces (Vinyl Acetate-Acrylate)
Water-based Adhesive for Laminating Vinyl Plastisol Sheet to SBR Sponge Carpet (Butadiene-Acrylonitrile/Vinyl Chloride)
Water-Based Floor Tile Adhesive â€“ High-Quality Low-Cost Type (Resin Styrene Butadiene)
Water-Based Pressure Sensitive Adhesive for Foam-Backed Carpet Tile (Acrylic)
Water-Based Pressure Sensitive Adhesive for Foam-Backed Carpet Tile (Acrylic)
Water-Based Wood Adhesive (Vinyl Acetate)
Water-Based Low Cost Adhesive for Wood (Vinyl Acetate/Starch)
Water-Based Adhesive for Bonding Wallboard to Studs (Vinyl Acetate/Vinyl Alcohol)
Water-Based Construction Adhesive for Many Applications (Ethylene-Vinyl Acetate/Phenolic)

2. FABRIC ADHESIVES

Water-Based Adhesive for Bonding Canvas to Canvas (Styrene-Butadiene/Resin)
Water-Based Adhesive for Bonding Canvas to Canvas or Aluminum (Styrene-Butadiene/Resin)
Water-Based Adhesive for Bonding Fabric to Fabric (Acrylic)
Water-Based Adhesive for Bonding Fabric to Fabric (Acrylic)
Water-Based Adhesive for Bonding Fabric to Fabric (Acrylics)

Water-Based Adhesive for Bonding Non-woven Fabric to Non-woven Fabric by
Knife Coating (Acrylic)

Water-Based Adhesive for Bonding Nonwoven Fabric to Nonwoven Fabric by Spray
Coating (Acrylic)

Water-Based Adhesive for Bonding Saturated Paper to Woven Fabric (Butadiene-Acrylonitrile or Styrene-Butadiene)

Water-Based Adhesive for Bonding Wool Blend Fabrics to Nylon Tricot and Acetate Tricot (Acrylic)

Water-Based Adhesive for Bonding Wool Blend Fabrics to Nylon Tricot and Acetate Tricot (Acrylic)

Water-Based Adhesive for Bonding Wool Blend Fabrics to Nylon Tricot and Acetate Tricot (Acrylic)

Water-Based Adhesive for Bonding Nitrile and Epichlorohydrin Rubber to Fabric (Butadiene-Acrylonitrile)

Water-Based Adhesive for Bonding Nitrile Rubber Stocks to Cotton or Rayon Fabrics (Butadiene-Acrylonitrile)

Water-Based Adhesive for Bonding Paper to Burlap (Styrene-Butadiene)

Water-Based Adhesive for Bonding Paper to Burlap (Styrene-Butadiene)

Water-Based Adhesive for Bonding Fabrics to Vinyl Foam (Vinyl Chloride)

Water-Based Adhesive for Bonding Woven Fabrics to Vinyl Foam (Butadiene-Styrene-Acrylonitrile)

3. FILM ADHESIVES

Water-Based Adhesive for Bonding Clear Vinyl Chloride-Vinyl Acetate Copolymer (Ethylene-Vinyl Acetate)

Water-Based Adhesive for Bonding Pigmented and Plasticized Polyvinyl Chloride (Ethylene-Vinyl Acetate)

Water-Based Adhesive for Bonding Polyvinyl Chloride to Chipboard (Vinyl Acetate-Acrylate/Vinyl Alcohol)

Water-Based Adhesive for Bonding Polyvinyl Chloride to Chipboard (Vinyl Acetate-Acrylate)
Water-Based Adhesive for Bonding Polyvinyl Chloride Film to Gypsum Wallboard (Vinyl Acetate-Acrylate)

Water-Based Adhesive for Laminating Vinyl Film to Particle Board (Acrylic)

Water-Based Adhesive for Laminating Vinyl Film to Particle Board (Acrylic/Resin)

Water-Based Adhesive for Bonding Vinyl Film to Wood of Fiberboard (Vinyl Chloride-Acrylate)

Water-Based Adhesive for Bonding Vinyl Film to Wood or Fiberboard (Vinyl Chloride-Acrylate)

Water-Based Adhesive for Bonding Vinyl Film to Wood or Fiberboard (Vinyl Chloride-Acrylate)

Water-Based Adhesive for Bonding Embossed Polyvinyl Chloride Film to Wood and Masonite (Vinyl Acetate-Acrylate)

Water-Based Adhesive for Bonding Porous Vinyl Film to Cellulosic Non-wovens (Vinyl Chloride)

Water-Based Adhesive for Bonding Porous Vinyl Film to Cellulosic Non-wovens (Vinyl Chloride-Acrylate)

Water-Based Adhesive for Laminating Vinyl Film to Leather (Vinyl Chloride-Acrylate)

Water-Based Pressure Sensitive Adhesive for Mylar and Aluminum Laminate (Acrylic)

Water-Based Adhesive for Bonding Mylar (Ethylene-Vinyl Acetate/Vinyl Acetate)

Water-Based Adhesive for Bonding Plastic Films to Paper for Packaging Use (Vinyl Acetate-Acrylate)

Water-Based Adhesive for Bonding Plastic Films to Paper for Packaging Use (Vinyl Acetate-Acrylate)

Water-Based Adhesive for Bonding Plastic Films to Paper for Packaging Use (Vinyl Acetate-Acrylate)

Water-Based Adhesive for Bonding Polyethylene to Paper (Vinyl Acetate-Acrylate/Resin)

Water-Based Adhesive for Bonding Polystyrene (Ethylene-Vinyl Acetates)

Water-Based Adhesive for Bonding Polystyrene (Ethylene-Vinyl Acetate)

Water-Based Adhesive for Bonding Polyurethane Film to Fabric (Acrylic)

Water-Based Adhesive for Bonding Polyurethane
Film to Fabric (Acrylonitrile)
Water-Based Adhesive for Bonding Polyurethane Film to Fabric (Vinyl Chloride)
Water-Based Food-Packing Adhesive for Bonding Saran Film to Paper (Butadiene-Acrylonitrile)
Water-Based Food-Packing Adhesive for Bonding Saran Film to Paper (Butadiene-Acrylonitrile)
Water-Based Adhesive for Bonding Paper to Vinyl Film (Vinyl Chloride-Acrylic)
Water-Based Adhesive for Bonding Paper to Vinyl Film (Vinyl Chloride)
Water-Based Adhesive for Bonding Paper to Vinyl Film (Vinyl Chloride)
Water-Based Adhesive for Cellulose Acetate and Saran-Coated Cellophane (Ethylene-Vinyl Acetate)

4. FLOCKING ADHESIVES

Water-Based Flocking Adhesive for Nylon Flock to Steel Paneling (Acrylic)
Water-Based Flocking Adhesive for Nylon Flock to Cotton Fabric (Butadiene Acrylonitrile)
Water-Based Flocking Adhesive for Nylon Flock to Vinyl Substrates (Vinyl Chlorides)
Water-Based Flocking Adhesive for Nylon Flock to Vinyl Substrates (Vinyl Chloride)
Water-Based Flocking Adhesive for Nylon Flock to Vinyl Substrates (Vinyl Chloride)
Water-Based Flocking Adhesive for Polyurethane Foam to Many Substrates (Acrylic)
Water-Based Flocking Adhesive for Polyurethane Foam to Many Substrates (Acrylic)
Water-Based Adhesive for Polyurethane Foam to Many Substrates (Acrylonitrile)
Water-Based Flocking Adhesive for Polyurethane Foam to Many Substrates (Butadiene-Acrylonitrile)
Water-Based Flocking Adhesive for Rayon Fiber to SBR (Styrene-Butadiene)
Water-Based Flocking Adhesive for Cotton-Coated Natural Rubber (Acrylic)
Water-Based Flocking Adhesive for Leather Substrates (Acrylic)
Water-Based Flocking Adhesive for Leather Substrates (Acrylonitrile)
Water-Based Flocking Adhesive for Leather Substrates (Vinyl Chloride)
Water-Based Flocking Adhesive for Leather Substrates (Vinyl Chloride-Acrylic)
Water-Based Flocking Adhesive for Many Substrates (Nitrile)
Water-Based Flocking Adhesive for Many Substrates—Spray Application (Acrylic)
Water-Based Flocking Adhesive for Many Substrates (Acrylic)
Water-Based Flocking Adhesive for Neoprene Sponge Substrates (Styrene-Butadiene/Acrylonitrile)

5. FOAM ADHESIVES

Water-Based Adhesive for Bonding Polyurethane Foam to Flannel (Acrylic)
Water-Based Adhesive for Bonding Urethane Foam to Paper (Acrylic)
Water-Based Adhesive for Bonding Fabric-Backed Vinyl Wallcovering to SBR Foam (Acrylic)
Water-Based Adhesive for Bonding Fabric-Backed Vinyl Wallcovering to SBR Foam (Vinyl Chloride-Acrylic)
Water-Based Adhesive for Bonding Styrene Foam (Rubber/Butadiene Acrylonitrile)

6. GENERAL PURPOSE ADHESIVES

Water-Based General Purpose Adhesive (Butadiene-Acrylonitrile/Resin)
Water-Based General Purpose Adhesive (Ethylene-Vinyl Acetate)
Water-Based General Purpose Adhesive (Ethylene-Vinyl Acetate)
Water-Based General Purpose Adhesive (Ethylene-Vinyl Acetate)
Water-Based General Purpose Adhesive (Ethylene-Vinyl Acetate)
Water-Based General Purpose Adhesive (Resin/Natural Rubber)
Water-Based General Purpose Adhesive (Resin/Neoprene)
Water-Based General Purpose Adhesive
7. INDUSTRIAL ADHESIVES

Water-Based Adhesive for Cold Pressing Plywood (Resin/Catalyst)
Water-Based Adhesive for Hot Pressing Plywood (Resin/Catalyst)
Water-Based Adhesive for Hot Pressing Plywood (Resin/Catalyst)
Water-Based Adhesive for Hot Pressing Plywood (Resin/Catalyst)
Water-Based Adhesive for Hot Pressing Plywood (Resin/Catalyst)
Water-Based Rug-Backing Compound
(Styrene-Butadiene)
Water-Based Adhesive for Rug-Backing
(Styrene-Butadiene)
Water-Based Low-Cost Low-Odour
Rug-Backing Compound (Styrene-Butadiene)
Water-Based Low-Cost Low-Odour
Rug-Backing Compound (Styrene-Butadiene)
Water-Based Low-Cost Low-Odour
Rug-Backing Compound (Styrene-Butadiene)
Water-Based Fire-Resistant Rug-Backing
Compound (Styrene Butadiene/
Chlorinated Paraffin)
Water-Based Adhesive for Bonding Bookbinding
Cover Stock (Vinyl Acetate-Acrylate)
Water-Based Adhesive for Bonding Cellulosic
Substrates (Phenolic/Styrene-
Butadiene-Acrylonitrile)
Water-Based Adhesive for Bonding to Metal
Surfaces (Vinyl Acetate)
Water-Based Fire-Resistant Adhesive
(Vinyl Acetate)

SECTION II
WATER-BASED PAPER AND PACKAGG ADHESIVES

8. BAG SEAM AND BOTTOM
PASTE ADHESIVES

Water-Based Bag Seam Paste (Starch/Resin)
Water-Based Bag Seam Water-proof Multiwall
Bag Adhesive (Dextrin/Resin)
Water-Based Carry-All Bag Seam Adhesive
(Starch)
Water-Based Fast-Track Water-Resistant
Bag Seam Adhesive (Vinyl Acetate/Resin)
Water-Based Grocery Bag Seam Adhesive
(Dextrin)
Water-Based Grocery Bag Seam Adhesive
(Dextrin)
Water-Based Low-Cost Water-Resistant Seam
Adhesive (Starch/Vinyl Alcohol)
Water-Based Non-Water-Resistant Bag Seam
Paste (Dextrin)
Water-Based Waterproof Grocery Bag Seam
Adhesive (Vinyl Alcohol/Starch)
Water-Based Waterproof Seam Adhesive  
(Starch/Vinyl Alcohol)  
Water-Based Waterproof Seam Adhesive  
(Government Specification)  
(Vinyl Alcohol/Starch)  
Water-Based Water-Resistant Seam Adhesive  
and Nonkill Cross-Paste (Vinyl Acetate/  
Vinyl Alcohol)  
Water-Based Seam Adhesive for Quilon-Treated  
Paper (Vinyl Alcohol)  
Water-Based Bottom Paste (Starch)  
Water-Based Bottom Paste for Quilon-Treated  
Paper (Starch/Vinyl Alcohol/Resin)  
Water-Based Grocery Bag Bottom Paste  
(Specialty Blend)  
Water-Based Waterproof Bottom Paste  
(Starch/Vinyl Alcohol/Resin)  
Water-Based Waterproof High-Solids Bottom Paste  
for Bags with Moisture Barrier (Starches/  
Vinyl Acetate/Resin)  
Water-Based Water-Resistant Bag Bottom  
Adhesive (Starch/Vinyl Alcohol)  
Water-Based Water-Resistant Bag Bottom  
Adhesive (Starch/Vinyl Alcohol/Vinyl Acetate)  
Water-Based Water-Resistant Bag Bottom  
Adhesive (Vinyl Acetate/Vinyl Alcohol/Starch)  
Water-Based Water-Resistant Bottom Paste  
(Vinyl Alcohol)  
Water-Based Low-Cost General Purpose Bag Seam  
and Spot Paste (Vinyl Alcohol)  
Water-Based Water-proof Seam and Bottom  
Bag Adhesive for Quilon Wet-Strength and  
Water-Repellent Paper (Starch/Vinyl  
Alcohol/Resin)  

9. SOLID FIBER, FIBERBOARD AND  
CORRUGATED BOARD ADHESIVES  
Water-Based Adhesive for Laminating Solid  
Fiber (Dextrin)  
Water-Based Adhesive for Laminating Solid  
Fiber (Sodium Silicate)  
Water-Based Adhesive for Laminating Solid  
Fiber (Starch/Vinyl Alcohol)  
Water-Based Low Viscosity Carton Sealing  
Adhesive (Vinyl Alcohol)  
Water-Based Adhesive for Laminating Solid Fiber
Water-Based Adhesive for Laminating Domestic Solid Fiber (Starch)
Water-Based General Purpose Low-Cost Adhesive for Laminating Solid Fiber (Vinyl Alcohol)
Water-Based Balanced Type Adhesive for Laminating Solid Fiber (Vinyl Alcohol/Starch)
Water-Based High Starch Type Adhesive for Laminating Solid Fiber (Starch/Vinyl Alcohol)
Water-Based Low Binder Ratio Adhesive for Laminating Solid Fiber (Vinyl Alcohol/Starch)
Water-Based Regular Non-waterproof Adhesive for Laminating Solid Fiber (Starch)
Water-Based Nonwaterproof Adhesive for Laminating Solid Fiber (Starch)
Water-Based Waterproof Adhesive for Laminating Solid Fiber (Vinyl Alcohol/Starch)
Water-Based Waterproof Adhesive for Laminating Solid Fiber (Vinyl Alcohol)
Water-Based Water-Resistant Adhesive for Laminating Solid Fiber (Starch/Vinyl Alcohol)
Water-Based Non-resinated Waterproof Adhesive for Laminating Solid Fiber (Starch/Vinyl Alcohol)
Water-Based Non-resinated Waterproof Adhesive for Laminating Solid Fiber (Vinyl Alcohol/Starch)
Water-Based Tricon Process Minimal Water-Resistant Adhesive for Laminating Solid Fiber (Starch/Vinyl Alcohol)
Water-Based Tricon Process High Water-Resistant Adhesive for Laminating Solid Fiber (Starch/Vinyl Alcohol)
Water-Based Adhesive for Bonding Fiberboard to Many Substrates (Resin/Vinyl Acetate/Vinyl Alcohol)
Water-Based Adhesive for Bonding Fiberboard to Many Substrates (Resin/Vinyl Acetate/Vinyl Alcohol)
Water-Based Adhesive for Bonding Corrugated Board (Sodium Silicate/Starch)
Water-Based Cold Set Adhesive for Bonding Corrugated Board (Sodium Silicate/Protein)
Water-Based Double-Backer Adhesive for Corrugated Board (Tapioca)
Water-Based Hot Set Adhesive for Bonding
Corrugated Board (Sodium Silicate/Protein/Starch)
Water-Based Single-Face Adhesive for Corrugated Board (Tapioca)
Water-Based Water-Resistant Adhesive for Bonding Corrugated Board (Vinyl Alcohol)

10. PACKAGING ADHESIVES

Water-Based Adhesive for Bonding Aluminum Foil to Chipboard and Paper Stock (Vinyl Acetate-Acrylate)
Water-Based Adhesive for Bonding Annealed Aluminum Foil (Ethylene-Vinyl Acetate)
Water-Based Adhesive for Bonding Annealed Aluminum Foil (Ethylene-Vinyl Acetate)
Water-Based Bottle Label Adhesive (Starch)
Water-Based Bottle Label Adhesive (Starch)
Water-Based Cup Adhesive (Vinyl Acetate/Vinyl Alcohol/Starch)
Water-Based Cup Stock Adhesive (Vinyl Acetate/Vinyl Alcohol)
Water-Based General Purpose Packaging Adhesive (Dextrin)
Water-Based General Purpose Packaging Adhesive (Starch)
Water-Based General Purpose Packaging Adhesive (Casein)
Water-Based Jelly Gum Adhesive (Starch)
Water-Based Removable Label Adhesive (Natural Latex/Polyterpene)
Water-Based Case and Carton Sealing Adhesive (Dextrin)
Water-Based Case and Carton Sealing Adhesive (Dextrin)
Water-Based Waterproof Adhesive (PPB-B-636) (Sodium Silicate/Protein/Starch)
Water-Based Special Adhesive for High Clay Coated Boxes (Vinyl Alcohol)
Water-Based Waterproof Fiber Drum Adhesive (Vinyl Alcohol/Starch)

11. PAPER CONE AND PAPER TUBE ADHESIVES

Water-Based Adhesive for Bonding Paper Cones
(Protein)
Water-Based Tube Winding Adhesive (Dextrin)
Water-Based Tube Winding Adhesive (Dextrin)
Water-Based Tube Winding Adhesive (Dextrins)
Water-Based Tube Winding Adhesive (Vinyl Alcohol/Starch)
Water-Based Spiral Tube Winding Adhesive (Vinyl Alcohol)
Water-Based Adhesive for Bonding Paper Cones and Tubes (Protein)
Water-Based Adhesive for Bonding Paper Cones and Tubes (Protein)
Water-Based Waterproof Tube and Core Winding Adhesive (Vinyl Alcohol)

12. PAPER-TO-PAPER OR OTHER SUBSTRATE ADHESIVES

Water-Based Adhesive for Bonding Paper to Aluminum Foil (Acrylic)
Water-Based Adhesive for Bonding Paper to Aluminum Foil (Acrylic)
Water-Based Adhesive for Bonding Paper to Aluminum Foil (Acrylic/Vinyl Acetate)
Water-Based Adhesive for Bonding Paper to Aluminum Foil (Acrylic/Vinyl Acetate)
Water-Based Adhesive for Bonding Paper to Aluminum Foil (Acrylic/Vinyl Acetate)
Water-Based Adhesive for Bonding Paper to Aluminum Foil (Butadiene-Acrylonitrile/Resin)
Water-Based Adhesive for Bonding Paper to Aluminum Foil (Vinyl Acetate-Acrylate)
Water-Based Adhesive for Bonding Paper to Paper or Paperboard (Butadiene-Acrylonitrile/Resin)
Water-Based Adhesive for Bonding Paper to Paper or Paperboard (Resins/Styrene-Butadiene)
Water-Based Adhesive for Bonding Paper to Paper or Paperboard (Resins/Styrene-Butadiene)
Water-Based Adhesive for Bonding Paper to Paper or Paperboard (Resins/Styrene-Butadiene)
Water-Based Adhesive for Bonding Paper to Paper or Paperboard (Resins/Styrene-Butadiene)
Water-Based Adhesive for Bonding Paper to Various Substrates (Styrene-Butadiene/Resin)
Water-Based Adhesive for Bonding Paper to
Various Substrates (Vinyl Acetate/Resin)
Water-Based Water-Resistant Non-Kill Cross Paste for Paper (Vinyl Alcohol)
Water-Based Quick-Tack No-Kill Adhesive for Quilon-Treated Paper (Vinyl Alcohol/Dextrin)
Water-Based High-Tack Adhesive for Heavy Weight Paper (Dextrin)

SECTION III
WATER-BASED COATINGS AND SATURANTS FOR CONCRETE, FABRICS, FIBERS AND PLASTIC

13. GENERAL PURPOSE COATINGS

Water-Based High Gloss General Purpose Coating (Resins/Polyethylene)
Water-Based High Water and Oil-Resistant General Purpose Coating (Resins/Polyethylene)
Water Based Tough Solvent Resistant General Purpose Coating (Acrylic)

14. INDUSTRIAL COATINGS

Asphalt-Based Liquid Applied Elastomer Surfacing Compound (Two-Component: Resin/Asphalt-Isocyanate)
Coating for the Membrane Curing of Concrete and as an Anti-spalling Agent (Resin)
Water-Based Strippable Coating (Vinyl Acetate-Acrylic)
Water-Based Fire-Resistant Fabric Staurant (Vinyl Chloride)
Water-Based Fire-Retardant Binder Coating for Fiber Materials (Vinylidene Chloride/Chlorinated Paraffin)
Water-Based Fire-Retardant Textile Coating (Acrylic)
Water-Based Fire-Retardant and Fungal-Resistant Textile Coating (Acrylic)
Water-Based Fire-Retardant Light-Duty Dip-Coat for Cotton, Paper and Wood (Vinylidene Chloride/Chlorinated Paraffin)

15. PAPER, PAPERBOARD AND CORRUGATED BOARD COATINGS
Water-Based Coating for Air Knife Application
on Paperboard (Ethylene-Vinyl Acetate/Protein)
Water-Based Coating for Champion Coater Application on Patent-Coated Board (Ethylene-Vinyl Acetate/Vinyl Alcohol)
Water-Based Coating for Corrugated or Folding Cartons (Resins/Wax)
Water-Based Coating for Corrugated or Folding Cartons (Resins/Wax)
Water-Based High Gloss Coating for Corrugated or Folding Cartons (Resins/Polyethylene)
Water-Based Coating for Corrugated or Folding Cartons (Resins/Polyethylene)
Water-Based Coating for Cylinder Paperboard (Styrene-Butadiene/Protein)
Water-Based Coating for Cylinder Paperboard (Styrene-Butadiene/Protein)
Water-Based Coating for Cylinder Paperboard (Styrene-Butadiene/Protein)
Water-Based Coating for Fourdrinier Paperboard (Polyvinyl Acetate/Protein)
Water-Based Coating for Fourdrinier Paperboard (Polyvinyl Acetate/Protein)
Water-Based Coating for Fourdrinier Paperboard (Polyvinyl Acetate/Protein)
Water-Based Coating for Label and Offset Printing Papers (Polyvinyl Acetate/Protein)
Water-Based Coating for Label and Offset Printing Papers (Polyvinyl Acetate/Protein)
Water-Based Coating for Label and Offset Printing Papers (Polyvinyl Acetate/Protein)
Water-Based Coating for Roll Coater Application on Letterpress Paper (Ethylene-Vinyl Acetate/Starch)
Water-Based Tough Solvent-Resistant Paper Coating (Acrylic)
Water-Based Coating for Trailing Blade Application on Breadwrap and Overlap (Ethylene-Vinyl Acetate)
Water-Based Coating for Size Press Application on Lightweight Bond Papers (Vinyl Alcohol)
Water-Based Coating for Size Press Application on Book Papers (Vinyl Alcohol)
Water-Based Coating for Size Press Application on Fine Papers (Ethylene-Vinyl Acetate/Starch)
Lacquer for Food-Packing Use on Papers, Films
and Foils (Nitrocellulose/Resin)
Lacquer for Food-Packing Use on Papers, Films and Foils (Nitrocellulose/Resin)
Lacquer for Food-Packing Use on Papers, Films and Foils (Nitrocellulose/Resins)
Lacquer for Food-Packing Use on Papers, Films and Foils (Nitrocellulose/Resin)

SECTION IV
HOT MELT ADHESIVES

16. GENERAL PURPOSE ADHESIVE

Hot Melt General Purpose Adhesive (Polyamide/Resin)
Hot Melt General Purpose Adhesive (Polybutene/Resin/Butyl)
Hot Melt General Purpose Adhesive (Polyterpene/Ethylene-Vinyl Acetate)
Hot Melt General Purpose Adhesive (Resin)
Hot Melt General Purpose Adhesive (Resin/Chlorinated Rubber)
Hot Melt General Purpose Adhesive (Resin/Ethyl Cellulose)
Hot Melt General Purpose Adhesive (Resins/Ethyl Cellulose)
Hot Melt General Purpose Adhesive (Resins/Ethyl Cellulose)
Hot Melt General Purpose Adhesive (Resins/Polyvinyl Butyrall)
Hot Melt General Purpose Adhesive (Vinyl Acetate/Ethyl Cellulose)
Hot Melt Flexible General Purpose Adhesive (Polyamides)
Hot Melt Good Sunlight-Aging High-Clarity General Purpose Adhesive (Polybutenes)
Hot Melt Low-Cost General Purpose Adhesive (Resin/Ethyl Cellulose)
Hot Melt Low-Temperature General Purpose Adhesive (Polyamides)
Hot Melt Low-Temperature General Purpose Adhesive (Polyamide)
Hot Melt Low-Temperature General Purpose Adhesive (Polyamide/Resin)
Hot Melt Laminating Adhesive (Resin/Ethyl Cellulose)
Hot Melt Laminating Adhesive (Resin/Ethyl Cellulose)

17. INDUSTRIAL TYPE ADHESIVES

Hot Melt Bookbinding Adhesive (Ethylene-Vinyl Acetate/Polyterpene/Rosin)
Hot Melt Bookbinding Adhesive (Ethylene-Vinyl Acetate/Resin)
Hot Melt Elastic Backing Adhesive (Polybutene/Butyl)
Hot Melt Elastic Backing Adhesive (Polybutene/Butyl)
Hot Melt Elastic Backing Adhesive (Polybutene/Butyl)
Hot Melt Industrial Use Adhesive (Rosin/Polyvinyl Butyral)
Hot Melt Leather-to-Wood Adhesive (Rosin/Polyvinyl Butyral)
Hot Melt Metal-to-Metal Adhesive and Caulking Compound (Polyamides)
Hot Melt Strong Bond Assembly Adhesive (Resin/Rubber)
Hot Melt Strong Bond Assembly Adhesive (Resin/Rubber)
Hot Melt Traffic Marker (Resins/Ethyl Cellulose)
Hot Melt Transfer of Marking Ink (Ethyl Cellulose/Resin)

18. LABELLING ADHESIVE

Hot Melt General Purpose Label Adhesive (Ethylene-Vinyl Acetate/Polyterpene)
Hot Melt General Purpose Label Adhesive (Ethylene-Vinyl Acetate/Resin)
Hot Melt General Purpose Label Adhesive (Resin)
Hot Melt Label Adhesive (Ethylene-Vinyl Acetate/Polyethylene/Resin)
Hot Melt Label Adhesive for Difficult Substrates (Ethylene-Vinyl Acetate/Polyterpene)
Hot Melt Hot Pick-Up Label Adhesive (Resins/Polyvinyl Butyral)
Hot Melt Pressure Sensitive Label Adhesive (Resins/Rubbers)
Hot Melt Pressure Sensitive Label Adhesive (Resins/Rubbers)
Hot Melt Pressure Sensitive Label Adhesive (Rubber/Resin)
Hot Melt Pressure Sensitive Permanent Label Adhesive (Polypropylene/Resin/Polybutene)
Hot Melt Label and Closure Adhesive (Ethylene-Vinyl Acetate/Resin)

19. PAPER AND PACKAGING TYPE ADHESIVES

Hot Melt Carton Sealing Adhesive (Ethylene-Vinyl Acetate/Resin)
Hot Melt Carton Sealing Adhesive for Low Temperature Applications (Ethylene-Vinyl Acetates/Polyterpene)
Hot Melt Carton and Case Sealing Adhesive (Ethylene-Vinyl Acetate/Resins)
Hot Melt Case Sealing Adhesive (Polyethylene/Polyterpene/Ethylene-Vinyl Acetate)
Hot Melt Fast Assemble Carton and Case Sealing Adhesive (Ethylene-Vinyl Acetate/Resin/Polyethylene/Rubber)
Hot Melt Curtain Coater Adhesive (Polyterpene/Ethylene-Vinyl Acetate)
Hot Melt Adhesive for Form and Fill Pouches (Ethylene-Vinyl Acetate/Resin)
Hot Melt Adhesive for Frozen Food Cartons (Ethylene-Vinyl Acetate/Polyterpene)
Hot Melt Glassine and General Purpose Paper Adhesive (Polyamides)
Hot Melt Paper Laminating Adhesive (Polybutene/Resin/Rubber)
Hot Melt Laminating Adhesive for Paper, Film and Foil (Polyterpene/Polypropylene)
Hot Melt Packaging Adhesive (Ethyl Cellulose/Resins)
Hot Melt Packaging Adhesive (Ethyl Cellulose/Resins)
Hot Melt Packaging Adhesive (Ethyl Cellulose/Resins)
Hot Melt Packaging Adhesive (Ethyl Cellulose/Resins)
Hot Melt Packaging Adhesive (Ethyl Cellulose/Resins)
Hot Melt Packaging Adhesive (Resins/Polyvinyl Butyral)
Hot Melt Packaging Adhesive (Resins/Polyvinyl Butyral)
Hot Melt Polyethylene Adhesive (Polyamides)
Hot Melt Adhesive for Soap Wrappers and Bands (Ethylene-Vinyl Acetate)
Hot Melt Adhesive for Soap Wrappers and Bands (Ethylene-Vinyl Acetate)
Hot Melt Adhesive for Soap Wrappers and Bands (Ethylene-Vinyl Acetate Resin)
Hot Melt Tray-Forming and Case-Sealing Adhesive (Polyethylenes/Polyterpene)
Hot Melt Wax Paper Adhesive (Resins/Polyvinyl Butyral)

20. PRESSURE SENSITIVE ADHESIVES

Hot Melt Pressure Sensitive Adhesive (Polybutenes/Resin)
Hot Melt Pressure Sensitive Adhesive (Polybutenes/Resin)
Hot Melt Pressure Sensitive Adhesive (Polybutenes/Resins/Polypropylene)
Hot Melt Pressure Sensitive Adhesive (Polypropylene/Rosin)
Hot Melt Pressure Sensitive Adhesive (Polypropylene/Rosin)
Hot Melt Pressure Sensitive Adhesive (Polypropylene/Rosin/Polybutene)
Hot Melt Pressure Sensitive Adhesive (Polyterpene/Ethylene-Vinyl Acetate/Polyethylene)
Hot Melt Pressure Sensitive Adhesive (Polyterpene/Isoprene-Styrene/Polybutene/Resin)
Hot Melt Pressure Sensitive Adhesive (Polyterpene/Isoprene-Styrene/Polybutene/Resin)
Hot Melt Pressure Sensitive Adhesive (Polyterpene/Isoprene-Styrene/Polybutene/Resin)
Hot Melt Pressure Sensitive Adhesive (Polyterpene/Isoprene-Styrene/Polybutene/Resin)
(Polyterpene/Resin)
Hot Melt Pressure Sensitive Adhesive
(Polyterpene/Styrene-Isoprene-Styrene/Styrene-Butadiene)
Hot Melt Pressure Sensitive Adhesive
(Polyterpenes/Ethylene-Vinyl Acetate)
Hot Melt Pressure Sensitive Adhesive
(Resin/Rubber)
Hot Melt Pressure Sensitive Adhesive
(Resin/Rubber)
Hot Melt Pressure Sensitive Adhesive
(Resin/Rubber)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Polyterpene/Polybutene/Resin)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Polyterpene/Polybutene/Resin)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Polyterpene/Polybutene/Resin)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Polyterpene/Polybutene/Resin)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Polyterpene/Resin/Polybutene)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Polyterpene/Resin/Polybutene)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Polyterpene/Resin/Polybutene)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Resin)
Hot Melt Pressure Sensitive Adhesive
(Rubber/Resins)
Hot Melt Low-Cost Pressure Sensitive Adhesive
(Polypropylene/Resin/Polybutene)
Hot Melt Low-Cost Pressure Sensitive Adhesive
(Polypropylene/Resin)
Hot Melt Sprayable Pressure Sensitive Adhesive
(Polyterpene/Styrene-Isoprene-Styrene/Styrene-Butadiene)

SECTION V
HOT MELT COATINGS

21. INDUSTRIAL TYPE COATINGS

Hot Melt Stop-Off Plating Coating (Cellulose Acetate Butyrate)
Hot Melt Strippable Coating (Cellulose Acetate Butyrate)
Hot Melt Strippable Coating (Cellulose Acetate Butyrate)
Butyrate/Resin
Hot Melt Strippable Coating (Ethyl Cellulose)
Hot Melt Strippable Coating (MIL-P-149B, Type II)
(Cellulose Acetate Butyrate)
Hot Melt Strippable Coating (MIL-P-149B, Type II)
(Cellulose Acetate Butyrate)
Hot Melt Strippable Coating (MIL-P-149B, Type II)
(Cellulose Acetate Butyrate)
Hot Melt Strippable Coating (MIL-P-149B, Type II)
(Cellulose Acetate Butyrate)
Hot Melt Strippable Coating (MIL-P-149B, Type II)
(Cellulose Acetate Butyrate)
Hot Melt Strippable Coating (MIL-P-149B, Type II)
(Cellulose Acetate Butyrate)
Hot Melt Strippable Coating For Metal Parts
(MIL-P-149A, ) (Ethyl Cellulose)

22. PAPER AND PACKAGING TYPE COATINGS
Hot Melt Coating for Aluminum Foil Soap
Wrappers (Ethylene-Vinyl Acetate/
Polyethylene/Resin)
Hot Melt Coating for Film with Heat-Sealable
Properties (Ethylene-Vinyl Acetate/
Resin/Polybutene)
Hot Melt Coating for Frozen Food Cartons
(Polyethylene)
Hot Melt Food-Packaging Coating (Resin/Ethyl
Cellulose)
Hot Melt Frozen Food-Packaging Coating
(Resin/Ethyl Cellulose)
Hot Melt General Barrier Coating for
Corrugated Containers (Ethylene-Vinyl
Acetate/Polyterpene/Polyethylene)
Hot Melt General Purpose Coating
(Polyterpene/Ethylene-Vinyl Acetate)
Hot Melt Heat-Sealable Paper Coating
(Ethylene-Vinyl Acetate/Resin)
Hot Melt High Gloss Display Coating
(Ethylene-Vinyl Acetate/Polyterpene/
Polyethylene)
Hot Melt High Gloss Low-Viscosity Display
Coating (Polyethylene/Polyterpene)
Hot Melt High Gloss General Purpose
Coating (Polyethylene)
Hot Melt High Gloss Packaging Coating
(Ethylene-Vinyl Acetate/Polyterpene)
Hot Melt High Gloss Packaging Coating for
All Food Cartons (Polyethylene)
Hot Melt High Gloss Paper Coating with Heat-Sealable Properties (Resin)
Hot Melt High Gloss Paper Coating with Heat-Sealable Properties (Resin)
Hot Melt Hot Tack Coating for Non-porous Surfaces (Ethylene-Vinyl Acetate-Acid/ Polyterpene)
Hot Melt Impregnant for Corrugated Boxes (Resin)
Hot Melt Impregnant for Corrugated Boxes (Resin)
Hot Melt Impregnant for Corrugated Boxes (Resin)
Hot Melt Label Coating Adhesive (Polyethylene/Polyterpene/Polybutene)
Hot Melt Low Cost Adhesive Coating (Resin/Rosin)
Hot Melt Low Cost Adhesive Coating (Resin/Butyl)
Hot Melt Packaging Coating for Bread Wrappers (Resin/Ethyl Cellulose)
Hot Melt Packaging Coating for Curtain Coater Application on Frozen Food Cartons (Ethylene-Vinyl Acetate/Resin)
Hot Melt Packaging Coating for Curtain Coater Application on Frozen Food Cartons (Resins)
Hot Melt Packaging Coating for Curtain Coater Application on Frozen Food Cartons (Resins)
Hot Melt Packaging Coating for Curtain Coater Application on Frozen Food Cartons (Resins)
Hot Melt Packaging Coating for Folding Food Cartons (Resin)
Hot Melt Packaging Coating for Folding Food Cartons (Resin)
Hot Melt Packaging Coating for Folding Food Cartons (Resin)
Hot Melt Packaging Coating for Folding Food Cartons (Resins)
Hot Melt Packaging Coating for Folding Food Cartons (Resins)
Hot Melt Paper Coating (Cellulose Acetate Butyrate)
Hot Melt Paper Coating (Cellulose Acetate Butyrate/Resin-Vinyl Acetate) 
Hot Melt Paper Coating (Resin) 
Hot Melt High Gloss Paper Coating for Curtain Coaters (Ethylene-Vinyl Acetate/Polyethylene) 
Hot Melt Paper Coating for Curtain Coaters (Ethylene-Vinyl Acetate/Polyethylene) 
Hot Melt Paper Coating with Heat Sealable Properties (Resin/Rosin) 
Hot Melt Paper and Packaging Coating (Resins/Ethyl Cellulose) 
Hot Melt Pattern Coating and High Gloss Carton Coating (Ethylene-Vinyl Acetate/Polyethylene) 
Hot Melt Pattern Coating and High Gloss Carton Coating (Ethylene-Vinyl Acetate/Polyethylene) 
Hot Melt Pattern Coating and High Gloss Carton Coating (Polyethylene) 

SECTION VI 
MISCELLANEOUS ADHESIVES AND COATINGS 

23. EPOXY ADHESIVES 

Epoxy General Purpose Adhesive (Two Component: Epoxy/Curing Agent) 
Epoxy Adhesive for Bonding Wet to Cured Concrete (Two Component: Epoxy/Curing Agent) 

24. OIL-BASED ADHESIVES 

Acoustical Tile Adhesive-Low Cost Type (Tall Oil Pitch/Resin) 
Cove Base Tile Adhesive-Low Cost Type (Tall Oil Pitch/Resin) 
Oil-Based Floor Tile Adhesive-Natural High-Quality Low Cost Type (Soyabean Oil Pitch/Resin) 
Oil-Based Floor Tile Adhesive-White High-Quality Moderate Cost Type (Soyabean Oil Pitch/Rosin) 

25. PLASTISOL ADHESIVES AND COATINGS 

Plastisol Adhesives for Bonding Vinyl Plastisol or Vinyl Sheets to Many Substrates (Vinyl Chlorides)
Plastisol Adhesives for Bonding Vinyl Film to Fabric by Roller Coat Application (Vinyl Chloride)

Plastisol Adhesives for Bonding Vinyl Film to Fabric by Roller Coat Application (Vinyl Chloride)

Plastisol Fire-Retardant Continuous Coating for Fabric (Vinyl Chloride/Chlorinated Paraffin)

Plastisol Flame-Retardant Coating for Metal, Wood and Fabrics (Polyvinyl Chloride)

Plastisol Flame-Retardant Coating for Metal, Wood and Fabrics (Polyvinyl Chloride)

Plastisol Spread-Coating Compound (Vinyl Chloride)

Plastisol Weather-Resistant Coating for Metal, Wood and Fabrics (Vinyl Chloride)

Plastisol Weather-Resistant Coating for Metal, Wood and Fabrics (Vinyl Chloride)

26. RESIN EMULSIONS FOR FURTHER COMPOUNDING

Resin Emulsion for Compounding Emulsion Adhesives (Resin)

Resin Emulsion for Compounding Emulsion Adhesives (Resin)

Resin Emulsion Base for Compounding Emulsion Adhesives (Resin)

Resin Emulsion for Compounding Emulsion Adhesives (Resin)

SECTION VII MISCELLANEOUS PATCHING AND SEA COMPOUNDS

27. CAULKING COMPOUNDS

Oil-Based Caulking Compounds (TT-C-598) (Oil)

Oil-Based Caulking Compounds - General Purpose Grade (Linseed Oil/Polybutene)

Oil-Based Caulking Compounds - General Purpose Rope Grade (Polybutene)

Oil-Based Caulking Compounds - Gun Grade (Soyabean Oil/Polybutene)

Oil-Based Caulking Compounds - Gun Grade (Polybutene)
Oil-Based Caulking Compounds - Aluminum Gun Grade (TT-C-598b) (Soyabean Oil)
Oil-Based Caulking Compounds - High-Quality Moderate-Cost Gun Grade (Soyabean Oil/Polybutene)
Oil-Based Caulking Compounds - Low-Cost Gun Grade (Soyabean Oil/Polybutene)
Oil-Based Caulking Compounds - Natural Special Gun Grade (Soyabean Oil/Polybutene)
Oil-Based Caulking Compounds - High-Quality Knife Grade (Oils)
Oil-Based Caulking Compounds - High-Quality Knife Grade (Soyabean Oils)
Oil-Based Caulking Compounds - Household Tub Grade (Resin)
Oil-Based Caulking Compounds - White Durable Grade (Soyabean Oil)
Polyuretane Caulking Compounds - Flexible Grade (Two Component: Urethane-Polyol)
Polyuretane Caulking Compounds - Flexible Grade (Two Component: Urethane-Polyol)
Polyuretane Caulking Compounds - Flexible Grade (Two Component: Urethane-Polyol)
Solvent-Based Caulking Compound - Aluminum Grade (Butyl/Polyterpenes)
Solvent-Based Caulking Compound - White Grade (Butyl/Polyterpenes)
Solvent-Based Caulking Compound - High-Quality Grade (TT-S-001657) (Polybutene/Butyl)
Solvent-Based Caulking Compound - High-Quality Grade (TT-S-001657) (Polybutene/Butyl/Resin)
Solvent-Based Caulking Compound - High-Quality Grade (TT-S-001657) (Polybutene/Resin)
Solvent-Based Caulking Compound - High-Quality Flexible Gun Grade (Polybutene/Butyl phenolic)
Solvent-Based Caulking Compound - High-Quality General-Purpose Grade (TT-S-001657) (Polybutene/Butyl/Resin)
Solvent-Based Caulking Compound - Non-skinning Gun Grade (Polybutene/Soyabean Oil)
Solvent-Based Caulking Compound - Gun Grade (Butyl)
Water-Based Caulking Compound - General Purpose Grade (Acrylic)
Water-Based Caulking Compound - General Purpose Grade (Ethylene-Vinyl Acetate)
Water-Based Caulking Compound - General Purpose Grade (Ethylene-Vinyl Acetate)
Water-Based Caulking Compound - High-Quality Gun Grade (Acrylic)
Water-Based Caulking Compound - High-Quality Gun Grade (Acrylic)
Water-Based Caulking Compound - High-Quality Gun Grade (Acrylic)
Water-Based Caulking Compound - High-Quality Flexible Grade (Vinyl Acetate-Acrylic)
Water-Based Caulking Compound - High-Quality Moderate-Cost Gun Grade (Acrylic)
Water-Based Caulking Compound - White Gun Grade (Acrylic)
Water-Based Caulking Compound - White High-Quality Low-Cost Household Tub Grade (Acrylic)

28.CEMENT, CONCRETE AND PLASTER PATCHING COMPOUNDS

Cement Topping Mix - Dry Type (Sand/Cement/Vinyl Acetate/Vinyl Alcohol)
Plaster Patching Compound - Dry Type (Plaster/Vinyl Acetate)
Patching Compound for Masonry - Trowel Grade (Three Component: Epoxy-Hardener-Sand)
Water-Based Patching Compound for Concrete - High Quality Paste Type (Acrylic)

29.GLAZING COMPOUNDS

Oil Based Glazing Compound - Elastic Grade (Soyabean Oil/Polybutene)
Oil Based Glazing Compound - Greenhouse Grade (Mineral Oil/Linseed Oil)
Oil Based Glazing Compound - High-Quality Grade (Oils)
Oil Based Glazing Compound - High-Quality Elastic Grade (Oils)
Oil Based Glazing Compound - Professional Grade (Soyabean Oil/Linseed Oil)
Water-Based Glazing Compound - High-Quality
Exterior Grade (Acrylic)

30. GROUTING COMPOUNDS

Groutung Compound - Dry Type for Ceramic
Tiles (Calcium Carbonate/Cement)
Water-Based Grouting Compound - Prepared
High Quality Convenience Type for Tiles
(Acrylic)

31. JOINT CEMENTS

Joint Cement- Dry Type (Calcium Carbonate/
Micas)
Joint Cement - Dry Type (Calcium Carbonate/
Mica/Vinyl Acetate)
Joint Cement - Dry Type (Calcium Carbonate/
Micas/Vinyl Acetate/Vinyl Alcohol)
Joint Cement - Dry Type (Calcium Carbonate/
Mica/Vinyl Acetate/Vinyl Alcohol)
Water Based Joint Cement - Paste Type
(Calcium Carbonate/Vinyl Acetate)

32. MASTICS

Oil-Based Mastic - High-Quality Moderate-Cost
Type for Ceramic Tiles (Soyabean Oil/Resin)
Oil-Based Mastic - High-Quality Moderate-Cost
Type for Ceramic Tiles (Resin)
Rubber-Based Mastic - High-Quality Knife-Sealer
Grade (Polybutene)
Solvent-Based Mastic - Trowelable Grade (Resin)
Water-Based Mastic - High-Quality Type for
Bonding Insulation to Epoxy-Coated Surfaces
(Vinyl Acetate-Acrylate)
Water-Based Mastic - High-Quality Type for
Bonding Insulation to Various Substrates
(Vinyl Acetate-Acrylate)
Water-Based Mastic - White High-Quality Low-Cost
Type for Wall Tiles (Resin/Styrene-Butadiene)
Water-Based Mastic - Natural High-Quality Low-
Cost Type for Wall Tiles (Resin/Styrene-
Butadiene)
Water-Based Mastic - Natural High-Quality
Moderate-Cost Type for Ceramic Tiles
33. PUTTIES

Oil-Based Putty - Metal Sash Grade (Linseed Oil)
Oil-Based Putty - Plumberâ€™s Grade (Oils)
Oil-Based Putty - Stainless Grade (Linseed Oil/Soyabean Oil)
Oil-Based Putty - White Commercial Grade (Mineral Oil/Linseed Oil)
Oil-Based Putty - White High-Quality Grade (Linseed Oils)

34. SEALANTS

Hot Melt Sealant (Phenolic/Butyl/Ethylene-Vinyl Acetate)
Hot Melt Sealant (Butyl/Phenolic/Ethylene-Vinyl Acetate)
Hot Melt Sealant (Resins/Ethylene-Vinyl Acetate/Butyl)
Rubber-Based Sealant Tape Adhesive (Polybutenes)
Sealant - High-Quality Gun Grade (Polymercaptan)

35. SEAM COMPOUNDS

Oil-Based Seam Sealer for Automotive Use (Mineral Oil/Gilsonite)
Oil-Based Seam Compound - Marine-Use Grade (Linseed Oil/Marine Oil)

36. SOLDERS

Cold Solder (Two-Component: Epoxy-Hardener)
Cold Solder (Two-Component: Polyester-Hardener)
37. SPACKLING COMPOUNDS

Spackling Compound - Dry Type
(Calcium Carbonate)
Spackling Compound - Dry Type (Calcium Carbonate/Vinyl Acetate/Vinyl Alcohol)

Section VIII: Trademarked Raw Materials
Section IX: Suppliersâ€™ Addresses

Sample Chapter:
## PRESSURE SENSITIVE ADHESIVES

### HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYBUTENES/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Vistanex MML-100 Isobutene Polymer</td>
<td>35.0</td>
</tr>
<tr>
<td>2.</td>
<td>Polybutene 128 Isobutene Polymer</td>
<td>18.0</td>
</tr>
<tr>
<td>3.</td>
<td>Abitol Resin</td>
<td>21.0</td>
</tr>
<tr>
<td>4.</td>
<td>Mineral Oil</td>
<td>26.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100.0</td>
</tr>
</tbody>
</table>

### HOT MELT PRESSURE SENSITIVE ADHESIVE (POLBUTENES/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Vistanex MML-100 Isobutene Polymer</td>
<td>35.0</td>
</tr>
<tr>
<td>2.</td>
<td>Polybutene 128 Isobutene Polymer</td>
<td>22.0</td>
</tr>
<tr>
<td>3.</td>
<td>Staybelite Ester 3 Resin</td>
<td>17.0</td>
</tr>
<tr>
<td>4.</td>
<td>Mineral Oil</td>
<td>26.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100.0</td>
</tr>
</tbody>
</table>

### HOT MELT PRESSURE SENSITIVE ADHESIVE (POLUBUTENES/RESINS)

d] 36.0

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Vistanex MML-100 Isobutene Polymer</td>
<td>2.</td>
</tr>
<tr>
<td>2.</td>
<td>Polybutene 128 Isobutene Polymer</td>
<td>10.0</td>
</tr>
<tr>
<td>3.</td>
<td>Staybelite Ester 3 Resin</td>
<td>18.0</td>
</tr>
<tr>
<td>4.</td>
<td>Staybelite Ester 10 Resin</td>
<td>9.0</td>
</tr>
<tr>
<td>5.</td>
<td>Mineral Oil</td>
<td>27.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Key Properties
Good peel strength

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYBUTENES/RESINS/POLYPROPYLENE)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Per cent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Vistanex MML-100 Isobutene Polymer</td>
<td>27</td>
</tr>
<tr>
<td>2.</td>
<td>Polybutene 128 Isobutene Polymer</td>
<td>14</td>
</tr>
<tr>
<td>3.</td>
<td>Polypropylene (Amorphous)</td>
<td>13</td>
</tr>
<tr>
<td>4.</td>
<td>Hercolyn D Resin</td>
<td>13</td>
</tr>
<tr>
<td>5.</td>
<td>Piccolyte -115 Polyterpene Resin</td>
<td>13</td>
</tr>
<tr>
<td>6.</td>
<td>Mineral Oil</td>
<td>20</td>
</tr>
</tbody>
</table>

Key Properties

Excellent peel strength

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYPROPYLENE/ROSIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Per cent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Polytac R-1000 Amorphous Polypropylene</td>
<td>60.0</td>
</tr>
<tr>
<td>2.</td>
<td>Tall Oil Rosin</td>
<td>40.0</td>
</tr>
</tbody>
</table>

Physical Constants

Brookfield Viscosity @ 340°F: 1100 cp
Softening Point (Ring and Ball): 300°F (149°C)

Key Properties

Excellent elongation
Relatively low cost
Low odour

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYPROPYLENE/ROSIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by wet weight</th>
<th>Percent by wet weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Polytac R-1000</td>
<td>50.0</td>
<td>50.5</td>
</tr>
<tr>
<td>2.</td>
<td>Tall Oil Rosin</td>
<td>34.0</td>
<td>34.3</td>
</tr>
</tbody>
</table>
Paraffin Wax (190°F-195°F Melting Point)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>154.0</td>
</tr>
<tr>
<td></td>
<td>15.2</td>
</tr>
<tr>
<td></td>
<td>99.0</td>
</tr>
<tr>
<td></td>
<td>100.0</td>
</tr>
</tbody>
</table>

Physical Constants
Brookfield Viscosity @ 340°F: 1,000 cp
Softening Point (Ring and Ball): 290°F (143°C)

Key Properties
Tacky and stringy
Relatively low cost
Low odour

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYPROPYLENE/ROSIN/POLYBUTENE)

In

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Per cent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Polyac R-1000 Amorphous Polypropylene</td>
<td>50.0</td>
</tr>
<tr>
<td>2.</td>
<td>Rosin (Hydrogenated)</td>
<td>30.0</td>
</tr>
<tr>
<td>3.</td>
<td>dopol H-300 Isobutene Polymer</td>
<td>20.0</td>
</tr>
</tbody>
</table>

Physical Constants
Brookfield Viscosity @ 340°F: 1300 cp

Key Properties
Excellent surface tack
Relatively low cost
Low odour

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/ETHYLENE-VINYL ACETATE/POLYETHYLENE)

M

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Per cent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ethylene/Vinyl Acetate Copolymer Resin (Melt Index of 2-3)</td>
<td>24.88</td>
</tr>
<tr>
<td>2.</td>
<td>Microcrystalline Wax (180°F Melting Point)</td>
<td>24.88</td>
</tr>
<tr>
<td>3.</td>
<td>Epoline C-15 Polyethylene Resin</td>
<td>12.44</td>
</tr>
<tr>
<td>4.</td>
<td>Wingtack 115 Polyterpene Resin</td>
<td>37.30</td>
</tr>
</tbody>
</table>
5. Wingstay L Antioxidant 0.50

100.00

Softening Point (Ring and Ball): 201°F (94°C)
Brookfield Viscosity @ 300°F: 10,500 cp
Brookfield Viscosity @ 325°F: 7,200 cp
Brookfield Viscosity @ 350°F: 5,100 cp

Key Properties
Suitable for high tempera-Low volatility
True hot melt-Viscosity stable under
Adhesive applications prolonged heat-Good hot tack and wet ability

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/ISOPRENE-STYRENE/POLYBUTENE/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by wet weight</th>
<th>Percent by wet weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Solprene 418 Plastomer</td>
<td>100</td>
<td>26.88</td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>150</td>
<td>40.32</td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-210 Resin</td>
<td>40</td>
<td>10.75</td>
</tr>
<tr>
<td>4.</td>
<td>Indopol H-300 Isobutene Polymer</td>
<td>80</td>
<td>21.51</td>
</tr>
<tr>
<td>5.</td>
<td>Irganox 1010 Antioxidant/Stabilizer</td>
<td>2</td>
<td>0.54</td>
</tr>
</tbody>
</table>

372 100.00

Formulation Note
Other elastomers, besides Solprene 418, may give excellent results in similar compounds.

Physical Constants
Quick Stick Adhesion (PSTC-5): 4.1 lb
Peel Adhesion (PSTC-1): 11.4 lb
Shear Adhesion (Amoco): 135.0 sec

Key Properties
Tacky-Improved quick stick
Strengthened and reinforced-adhesion and peel compound-adhesion
Should find application in self-stick floor tiles, special tapes and specialty labels-Excellent shear adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/ISOPRENE-STYRENE/POLYBUTENE/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sl.</td>
<td>Raw Materials</td>
<td>Parts by weight</td>
<td>Percent by weight</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>1.</td>
<td>Solprene 418 Plastomer</td>
<td>100</td>
<td>26.88</td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95</td>
<td>150</td>
<td>40.32</td>
</tr>
<tr>
<td></td>
<td>Polyterpene Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-290 Resin</td>
<td>40</td>
<td>10.75</td>
</tr>
<tr>
<td>4.</td>
<td>Indopol L-14 Isobutene</td>
<td>80</td>
<td>21.51</td>
</tr>
<tr>
<td></td>
<td>Polymer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Irganox 1010</td>
<td>2</td>
<td>0.54</td>
</tr>
<tr>
<td></td>
<td>Antioxidant/Stabilizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>372</td>
<td>100.00</td>
</tr>
</tbody>
</table>

**Formulation Note**
Other elastomers, besides Solprene 418, may give excellent results in similar compounds.

**Physical Constants**
Rolling Ball Tack (PSTC-6): 1.3 cm

**Key Properties**
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and speciality labels Improved rolling ball tack

**HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/ISOPRENE-STYRENE/POLYBUTENE/RESIN)**

Other elastomers, besides Solprene 418, may give excellent results in similar compounds.

**Physical Constants**
Quick Stick Adhesion (PSTC-5): 4.3 lb
Peel Adhesion (PSTC-1): 13.7 lb
Shear Adhesion (Amoco Test): 28.9 lb
Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and speciality labels
Improved quick stick adhesion and peel adhesion
Good Shear Adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/ISOPRENE-STYRENE/POLYBUTENE/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Solprene 418 Plastomer</td>
<td>100</td>
<td>33.11</td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>150</td>
<td>49.67</td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-210 Resin</td>
<td>40</td>
<td>13.25</td>
</tr>
<tr>
<td>4.</td>
<td>Indopol L-14 Isobutene Polymer</td>
<td>10</td>
<td>3.31</td>
</tr>
<tr>
<td>5.</td>
<td>Irganox 1010 Antioxidant/Stabilizer</td>
<td>2</td>
<td>0.66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>302</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Formulation Note
Other elastomers, besides Solprene 418, may give excellent results in similar compounds.

Physical Constants
Quick Stick Adhesion (PSTC-5): 11.6 lb
Peel Adhesion (PSTC-1): 10.7 lb
Shear Adhesion (Amoco Test): 42.8 sec.

Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and speciality labels
Improved quick stick adhesion and peel adhesion
Good Shear Adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>47.69</td>
</tr>
<tr>
<td>2.</td>
<td>Kraton 1107 Thermoplastic Crumb Rubber</td>
<td>28.66</td>
</tr>
<tr>
<td>3.</td>
<td>Dow 276-V2 Resin</td>
<td>23.65</td>
</tr>
</tbody>
</table>
Key Properties
Good hot tack and wettability
Excellent shear and peel adhesion
Low volatility
Viscosity stable under prolonged heat

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/STYRENE-BUTADIENE-STYRENE)
WT1.96

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Wingtack 76 Polyterpene Resin</td>
<td>28</td>
<td>54.90</td>
</tr>
<tr>
<td>2.</td>
<td>Styrene/Butadiene/Styrene Block Copolymer</td>
<td>12</td>
<td>23.53</td>
</tr>
<tr>
<td>3.</td>
<td>ufflo 6054 Naphthenic Oil</td>
<td>10</td>
<td>19.61</td>
</tr>
<tr>
<td>4.</td>
<td>Antioxidant</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Physical Constants
Initial Performance:
Rolling Ball tack: 0.2 inch
180 Peel: 48 oz/inch
Dynamic Shear: 35 psi

Aged Performance:
Rolling Ball Tack: 0.2 inch
180 Peel: 51 oz/inch
Dynamic Shear: 39 psi

Key Properties
Excellent adhesive characteristics
Good heat and oxidation stability
Light colour

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/STYRENE-ISOPRENE-STYRENE/STYRENE-BUTADIENE)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>35.0</td>
<td>34.48</td>
</tr>
<tr>
<td>2.</td>
<td>Pliolite S5-D Styrene-Butadiene Resin</td>
<td>22.5</td>
<td>22.17</td>
</tr>
</tbody>
</table>
3. Styrene/Isoprene/Styrene Block Copolymer 27.5 27.09
4. Flexon 766 Extender Oil 15.0 14.78
5. Butyl Zimate Accelerator 1.5 1.48

101.5 100.00

Physical Constants
Rolling Ball Tack - Initial: 0.9 inch
Rolling Ball Tack - Aged: 0.5 inch
180° Peel - Initial: 46 oz/inch
Temperature to failure (1,000 g/in2): 372°F
Viscosity Change (1.5 hours at 400°F): -7.0%
Viscosity Change (2 hours at 400°F): -10.0%
Colour - Visual: Cream
Colour - Aged 2 Hours at 400°F: Dark Cream

Key Properties
Improvement exhibited by Pliolite S5-D Styrene-Butadiene Resin addition were:
Increased temperature to failure
Increased tack
Less percentage viscosity change
Improved aged colour

HOT MELT PRESSURE SENSITIVE ADHESIVE (POLYTERPENE/ETHYLENE-VINYL ACETATE)

Sl. Raw Materials Parts by weight Percent by weight
1. M&M 7512 Petrolatum 40 34.78
Elvax 260 Ethylene/Vinyl Acetate Copolymer Resin 30 26.09
2. Wingtack 95 Polyterpene Resin 30 26.09
3. Wingtack 10 Polyterpene Resin 15 13.04
4. 115 100.00

Physical Constants
Brookfield Viscosity (#2/20 RPM) @ 300°F: 2,300 cp
Brookfield Viscosity (#2/20 RPM) @ 325°F: 1,300 cp
Brookfield Viscosity (#2/20 RPM) @ 350°F: 1,000 cp
Softening Point (Ring and Ball): 165°F (74°C)

Key Properties
Lowered molten viscosity with little effect on softening point
Wingtack 10 Polyterpene Resin gives the following properties to the compound:
Increased tack adhesion
Modified shear and peel strength
Helps prevent stringing on hot melt applicators and air bubble formation on roller applicators
Reduced possibility of degradation
Assists in pressure-sensitive properties

HOT MELT PRESSURE SENSITIVE ADHESIVE (RESIN/RUBBER)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107 Thermoplastic Crumb Rubber</td>
<td>100</td>
<td>32.79</td>
</tr>
<tr>
<td>2.</td>
<td>Escorez 5320 Hydrocarbon Resin</td>
<td>140</td>
<td>45.90</td>
</tr>
<tr>
<td>3.</td>
<td>Shellflex 371 Extender Oil</td>
<td>60</td>
<td>19.67</td>
</tr>
<tr>
<td>4.</td>
<td>Butyl Zimate Accelerator</td>
<td>5</td>
<td>1.64</td>
</tr>
</tbody>
</table>

Formulation Note
The Shellflex 371 Extender Oil is added to improve the compatibility and reduce the melt viscosity of the Escorez 5320 Hydrocarbon Resin with the Kraton 1107 Thermoplastic Crumb Rubber. A better compromise between melt viscosity and pressure sensitive adhesive properties might be with less or no Shellflex 371 at all.

Physical Constants
Appearance: Transparent
Brookfield Viscosity @ 350°F (Initial): 14,500 cp
Brookfield Viscosity @ 350°F (Aged 72 hours at 300°F): 10,000 cp
Percent Change in Viscosities: -31%
Rolling Ball Tack: 0.3 inch (Low values desirable)
180° Peel Adhesion: 92 oz/inch (12 inches/minute to steel)
20° Hold (Å½ inch Å· Å½ inch Contact Area, 400 gram Load): 63 minutes
178° Vertical Hold (Å½ inch Å· Å½ inch Contact Area, 1,000 gram Load): 1.3 hours

Key Properties
Somewhat higher holding power than comparative aliphatic hydrocarbon resin
Good melt stability upon aging

HOT MELT PRESSURE SENSITIVE ADHESIVE (RESIN/RUBBER)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
</table>
1. Kraton 1107 Thermoplastic Crumb Rubber
   100  32.79

2. Escorez 5280 Hydrocarbon Resin
   120  45.90

3. Butyl Zimate Antioxidant
   5.00  2.22

   225  100.00

Physical Constants
Brookfield Viscosity @ 350°F: 42,500 cp

Properties of 1.5 mil Adhesive Film on 1.5 mil Polyester film:
Rolling Ball Tack: 2.0 inched (Low values desirable)
Peel Adhesion: 88 ounces/inch (12 inches/minute to steel)
Hold (½ inch x ½ inch Contact Area, 400 gram Load): 740 minutes
178º Verticle Hold (½ inch x ½ inch Contact Area, 1,000 gram Load): 30 hours

Key Properties
Excellent compatibility
Very good holding power
Adequate tack rating

HOT MELT PRESSURE SENSITIVE ADHESIVE (RESIN/RUBBER)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107 Thermoplastic Crumb Rubber</td>
<td>100</td>
<td>32.79</td>
</tr>
<tr>
<td>2.</td>
<td>Escorez 5320 Hydrocarbon Resin</td>
<td>140</td>
<td>45.90</td>
</tr>
<tr>
<td>3.</td>
<td>Shellflex 371 Extender Oil</td>
<td>60</td>
<td>19.67</td>
</tr>
<tr>
<td>4.</td>
<td>Butyl Zimate Accelerator</td>
<td>5.00</td>
<td>1.64</td>
</tr>
</tbody>
</table>

   305  100.00

Physical Constants
Brookfield Viscosity @ 350°F: 14,500 cp

Properties of 1.5 mil Adhesive Film on 1.5 mil Polyester film:
Rolling Ball Tack: 0.3 inched (Low values desirable)
180º Peel Adhesion: 92 ounces/inch (12 inches/minute to steel)
Hold (½ inch x ½ inch Contact Area, 400 gram Load): 63 minutes
178º Verticle Hold (½ inch x ½ inch Contact Area, 1,000 gram Load): 1.3 hours

Key Properties
Soft, relatively low viscosity compound with excellent tack properties
High concentration of oil as a diluent lowers strength or holding power

HOT MELT PRESSURE SENSITIVE ADHESIVE RUBBER/POLYTERPENE/POLYBUTENES/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107</td>
<td>100.0</td>
<td>33.22</td>
</tr>
<tr>
<td></td>
<td>Thermoplastic Crumb Rubber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95</td>
<td>100.0</td>
<td>33.22</td>
</tr>
<tr>
<td></td>
<td>Polyterpene Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-290</td>
<td>13.29</td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td>Polyterpene Resin 40.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indopol L-14 Isobutene Polymer</td>
<td>60.0</td>
<td>19.94</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Irganox 1010</td>
<td>1.0</td>
<td>0.33</td>
</tr>
<tr>
<td></td>
<td>Antioxidant/Stabilizer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Formulation Note
Other elastomers, besides Kraton 1107, may give excellent results in similar compounds.

Physical Constants
Rolling Ball Tack (PSTC-6): 2.3 cm
Quick Stick Adhesion (PSTC-5): 2.0 lb
Peel Adhesion (PSTC-1): 2.5 lb
Shear Adhesion (Amoco Test): 1.6 sec

Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and labels and where solvent-free coating provide economic or environmental advantages
Improved rolling ball tack, quick stick adhesion and peel adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE RUBBER/POLYTERPENE/POLYBUTENES/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107</td>
<td>100.0</td>
<td>38.31</td>
</tr>
<tr>
<td></td>
<td>Thermoplastic Crumb Rubber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95</td>
<td>100.0</td>
<td>38.31</td>
</tr>
<tr>
<td></td>
<td>Polyterpene Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-290</td>
<td>20.0</td>
<td>7.66</td>
</tr>
<tr>
<td></td>
<td>Resin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Indopol H-1500
Isobutene Polymer 40.0 15.34

Iraganox 1010
Antioxidant/Stabilizer 1.0 0.38

261.0 100.00

Formulation Note
Other elastomers, besides Kraton 1107, may give excellent results in similar compounds.

Physical Constants
Quick Stick Adhesion (PSTC-5): 5.3 lb
Peel Adhesion (PSTC-1): 10.7 lb
Shear Adhesion (Amoco Test): 37.6 sec

Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and labels and where solvent-free coatings provide economic or environmental advantages
Improved quick stick adhesion and peel adhesion
Good shear adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE RUBBER/POLYTERPENE/
POLYBUTENE/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107 Thermoplastic Crumb Rubber</td>
<td>100.0</td>
<td>33.22</td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>100.0</td>
<td>33.22</td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-290 Resin</td>
<td>40.0</td>
<td>13.29</td>
</tr>
<tr>
<td>4.</td>
<td>Indopol L-14 Isobutene Polymer</td>
<td>60.0</td>
<td>19.94</td>
</tr>
<tr>
<td>5.</td>
<td>Iraganox 1010 Antioxidant/Stabilizer</td>
<td>1.0</td>
<td>0.33</td>
</tr>
</tbody>
</table>

Formulation Note
Other elastomers, besides Kraton 1107, may give excellent results in similar compounds.

Physical Constants
Rolling Ball Tack (PSTC-6): 2.3 cm
Quick Stick Adhesion (PSTC-5): 2.0 lb
Peel Adhesion (PSTC-1): 2.5 lb
Shear Adhesion (Amoco Test): 1.6 sec

Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and labels and where solvent-free coatings provide economic or environmental advantages
Improved rolling ball tack, quick stick adhesion and peel adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE RUBBER/POLYTERPENE/RESIN
(POLYBUTENE)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107</td>
<td>100.0</td>
<td>35.59</td>
</tr>
<tr>
<td></td>
<td>Thermoplastic Crumb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rubber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95</td>
<td>100.0</td>
<td>35.59</td>
</tr>
<tr>
<td></td>
<td>Polyterpene Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-290 Resin</td>
<td>40.0</td>
<td>14.23</td>
</tr>
<tr>
<td>4.</td>
<td>Indopol H-1500</td>
<td>40.0</td>
<td>14.23</td>
</tr>
<tr>
<td></td>
<td>Isobutene Polymer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Irganox 1010</td>
<td>1.0</td>
<td>0.36</td>
</tr>
<tr>
<td></td>
<td>Antioxidant/Stabilizer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Formulation Note
Other elastomers, besides Kraton 1107, may give excellent results in similar compounds.

Physical Constants
Quick Stick Adhesion (PSTC-5): 4.5 lb
Peel Adhesion (PSTC-1): 12.0 lb
Shear Adhesion (Amoco Test): 32.3 sec

Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and labels and where solvent-free coatings provide economic or environmental advantages
Improved quick stick adhesion and peel adhesion
Good shear adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE RUBBER/POLYTERPENE/RESIN
(POLYBUTENE)
[Irganox 1010 Antioxidant/Stabilizer]
Formulation Note
Other elastomers, besides Kraton 1107, may give excellent results in similar compounds.

Physical Constants
Quick Stick Adhesion (PSTC-5): 1.8 lb
Peel Adhesion (PSTC-1): 5.8 lb
Shear Adhesion (Amoco Test): 263.0 sec

Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, speciality tapes and labels and where solvent-free coatings provide economic or environmental advantages
Improved quick stick adhesion and peel adhesion
Excellent shear adhesion

HOT MELT PRESSURE SENSITIVE ADHESIVE RUBBER/POLYTERPENE/RESIN
/POLYBUTENE)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107 Thermoplastic Crumb Rubber</td>
<td>100.0</td>
<td>39.84</td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>100.0</td>
<td>39.84</td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-290 Resin</td>
<td>40.0</td>
<td>15.94</td>
</tr>
<tr>
<td>4.</td>
<td>Indopol H-100 Isobutene Polymer</td>
<td>10.0</td>
<td>3.98</td>
</tr>
<tr>
<td>5.</td>
<td>Ethyl Antioxidant 330</td>
<td>5.0</td>
<td>1.82</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107 Thermoplastic Crumb Rubber</td>
<td>100.0</td>
<td>36.36</td>
</tr>
<tr>
<td>2.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>100.0</td>
<td>36.36</td>
</tr>
<tr>
<td>3.</td>
<td>Amoco 18-210 Resin</td>
<td>50.0</td>
<td>18.19</td>
</tr>
<tr>
<td>4.</td>
<td>Indopol H-1500 Isobutene Polymer</td>
<td>20.0</td>
<td>7.27</td>
</tr>
<tr>
<td>5.</td>
<td>Ethyl Antioxidant 330</td>
<td>5.0</td>
<td>1.82</td>
</tr>
</tbody>
</table>

275.0 100.00
Formulation Note
Other elastomers, besides Kraton 1107, may give excellent results in similar compounds.

Physical Constants
Rolling Ball Tack (PSTC-6): 19.3 cm
Peel Adhesion (PSTC-1): 2.4 lb
Shear Adhesion (Amoco Test): 3,309 sec

Key Properties
Tacky
Strengthened and reinforced compound
Should find application in self-stick floor tiles, specialty tapes and labels and where solvent-free coatings provide economic or environmental advantages
Improved rolling ball tack, quick stick adhesion and peel adhesion
Excellent shear adhesion

HOT MELT PRESSURE ADHESIVE (RUBBER/RESIN)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Zonarez 7115 Polyterpene Resin</td>
<td>40.0</td>
<td>39.8</td>
</tr>
<tr>
<td>2.</td>
<td>Styrene/Isoprene Block Copolymer</td>
<td>60.0</td>
<td>59.7</td>
</tr>
<tr>
<td>3.</td>
<td>Antioxidant</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Total: 100.5 100.00

Formulation Note
Recommended application temperature is 350º to 390ºF (177º to 199ºC)

Key Properties
Improved tack and adhesion of pressure-sensitive
Improved flexibility at high and low temperatures
Excellent stability
High quality

HOT MELT PRESSURE SENSITIVE ADHESIVE (RUBBER/RESINS)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kraton 1107 Thermoplastic Crumb Rubber</td>
<td>100</td>
<td>32.79</td>
</tr>
<tr>
<td>2.</td>
<td>Escorez 5280 Hydrocarbon Resin</td>
<td>100</td>
<td>32.79</td>
</tr>
<tr>
<td>3.</td>
<td>Cumar LX-509 Resin</td>
<td>40</td>
<td>13.11</td>
</tr>
</tbody>
</table>
Formulation Note
The Shellflex 371 Extender Oil is added to improve the compatibility and reduce the melt viscosity of the Escorez 5280 Hydrocarbon Resin with the Kraton 1107 Thermoplastic Crumb Rubber. A better compromise between melt viscosity and pressure sensitive adhesive properties might be with less or no Shellflex 371 at all.

Physical Constants
Appearance: Opaque
Brookfield Viscosity @ 350°F (Initial): 11,200 cp
Brookfield Viscosity @ 350°F (Aged 72 hours @ 300°F): 7,500 cp
Percent Change in Viscosities: -33%
Rolling Ball Tack: 0.1 inch (Low values desirable)
180°F Peel Adhesion: 76 ounces/inch (12 inches/minute to steel)
20°F Hold (Â½ inch Â· Â½ inch Contact Area, 400 gram Load): 52 minutes
178°F Vertical Hold (Â½ inch Â· Â½ inch Contact Area, 1,000 gram Load): 1.3 hours

Key Properties
Somewhat higher holding power than comparative aliphatic hydrocarbon resin
Good melt stability upon aging

HOT MELT LOW-COST PRESSURE SENSITIVE ADHESIVE POLYPROPYLENE/ RESIN/POLYBUTENE)

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Polytac R-1000 Amorphous Polypropylene</td>
<td>70.0</td>
</tr>
<tr>
<td>2.</td>
<td>Escorez 1315 Hydrocarbon Resin</td>
<td>20.0</td>
</tr>
<tr>
<td>3.</td>
<td>Indopol H-300 Isobutene Polymer</td>
<td>10.0</td>
</tr>
</tbody>
</table>

Physical Constants
Brookfield Viscosity @ 340°F: 3,000 cp
Softening Point (Ring and Ball): 295°F

Key Properties
Relatively low cost
Low odour

HOT MELT LOW-COST PRESSURE SENSITIVE ADHESIVE POLYPROPYLENE/ RESIN)
Escorez 1315 Hydrocarbon Resin 40.0

Key Properties
- Superior bonding strength
- No delamination after 24 hours at 140°F
- Relatively low cost
- Low odour

HOT MELT SPRAYABLE PRESSURE SENSITIVE ADHESIVE POLYTERPENE/STYRENE-ISOPRENE-STYRENE/STYRENE-BUTADIENE

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Raw Materials</th>
<th>Parts by weight</th>
<th>Percent by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Wingtack 95 Polyterpene Resin</td>
<td>40.0</td>
<td>39.41</td>
</tr>
<tr>
<td>2.</td>
<td>Pliolite S5-D Styrene-Butadiene Resin</td>
<td>12.5</td>
<td>12.32</td>
</tr>
<tr>
<td>3.</td>
<td>Process Oil</td>
<td>20.0</td>
<td>19.70</td>
</tr>
<tr>
<td>4.</td>
<td>Styrene/Isoprene/Styrene Block Copolymer</td>
<td>27.5</td>
<td>27.09</td>
</tr>
<tr>
<td>5.</td>
<td>Butyl Zimate Accelerator</td>
<td>1.5</td>
<td>1.48</td>
</tr>
</tbody>
</table>

101.5 100.0

Formulation Notes

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes various technology books, directory, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureau, consultants and consultancy firms as one of the input in their research.

NIIR PROJECT CONSULTANCY SERVICES
106-E, Kamla Nagar, New Delhi-110007, India.
Tel: 91-11-23843955, 23845654, 23845886, +918800733955
Mobile: +91-9811043595
Email: npcs.ei@gmail.com ,info@entrepreneurindia.co
Website: www.entrepreneurIndia.co