



#### Frimpeks SF 51

**Aticelca® 501** qualified, one component solventless adhesive. **Frimpeks SF 51** is specially formulated to laminate paper to film for the production of recyclable packaging in accordance to standard **Aticelca® 501** (i.e. ease of separation of the layers, keeping integrity and recyclability of the paper)



Scan to visit frimpeks.com

FR-0002-01-EN-0224



## Laminating Adhesives for Flexible Packaging



Frimpeks Laminating Adhesives offer several products for the fast growing, high speed and high quality environment of Flexible Packaging Industry. With solvent-based and solventless technology, Frimpeks covers wide range of applications in the market.

Frimpeks polyurethane based adhesives offer increase in efficiency, handling convenience and improved chemical and thermal resistance to the market. From snacks to retort applications, Frimpeks solvent-based and solventless adhesives propose a new pace of solutions to Flexible Packaging Industry.

| SOLVENTLESS PRODUCT PORTFOLIO |                     |                     |                     |                     |                     |                     |                     |                     |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                               | 601A/602B           | 601A/614B           | 601A/618B           | 601A/608B           | 401A/402B           | 401A/404B           | 114                 | 118                 |
| Performance Level             | General             | General             | General/Medium      | Medium              | High                | High                | High                | Medium              |
| Application Temperature       | 35-40°C             | 35-40°C             | 35-40°C             | 35-40°C             | 35-40°C             | 35-40°C             | 80-90°C             | 80-90°C             |
| Curing Time                   | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days |
| Room Temperature Curing       | ✓                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                   |
| Operating Speed (m/min.)      | 350-400             | 350-400             | 350-400             | 350                 | 300                 | 300                 | 100-120             | 100-120             |
| Time to Slit and Process      | 18-24hrs            | 18-24hrs            | 12-24hrs            | 12hrs               | 18-24hrs            | 12-24hrs            | 12hrs               | 12hrs               |
| Pot Life                      | 30-40min            | 30-40min            | 30-45min            | 30min               | 20-30min            | 20-30min            |                     |                     |
| Thermal Resistance            | ✓                   | ✓                   | ✓                   | ✓                   | ✓✓                  | ✓✓                  | ✓                   | ✓                   |
| Chemical Resistance           | ✗                   | ✗                   | ✗                   | ✓                   | ✓                   | ✓✓                  | ✗                   | ✗                   |

| SOLVENT-BASED PRODUCT PORTFOLIO |                     |                     |                     |                     |                     |                     |                         |           |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|-----------|
|                                 | 945A/948B           | 977A/974B           | 921A/922B           | 902A/903B           | 977A/970B           | 921A/925B           | 902A/909B               | 127       |
| Performance Level               | Medium              | Medium-High         | High                | High                | Medium-High         | High                | High                    | General   |
| Aromatic/Aliphatic              | Aromatic            | Aromatic            | Aromatic            | Aromatic            | Aromatic            | Aromatic            | Aliphatic               |           |
| Curing Time @ Temperature       | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Room Temp. / 7 days | Elevated Temp. / 7 days |           |
| Solid Content in Application    | 30-35%              | 35%                 | 30-35%              | >40%                | 35-40%              | 35-40%              | >40%                    | 35-40%    |
| Boiling/Pasteurization          | ✓                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                       | ✗         |
| Hot Filling                     | ✗                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                       | ✗         |
| Sterilization                   | ✗                   | ✗                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                       | ✗         |
| Retort without foil             | ✗                   | ✗                   | ✓                   | ✓                   | ✓                   | ✓                   | ✓                       | ✗         |
| Retort with foil                | ✗                   | ✗                   | ✗                   | ✗                   | ✗                   | ✓                   | ✓                       | ✗         |
| Time to Slit and Process        | 24 hrs              | 24 hrs              | 24 hrs              | 24 hrs              | 24 hrs              | 24 hrs              | 24 hrs                  | 24 hrs    |
| Cleanability                    | Very Good           | Very Good           | Standard            | Very Good           | Standard            | Standard            | Very Good               | Very Good |
| Thermal Resistance              | Medium              | Medium              | High                | High                | High                | High                | High                    | Medium    |
| Chemical Resistance             | High                | Medium-High         | High                | High                | High                | High                | High                    | Medium    |