

## 300 Technical Data Sheet 2008

### 1. PRODUCT SUMMARY

- Cadre 300 is a high quality hot melt adhesive, specifically designed for use on semi-automatic edgebanders for the production of contoured panels. Cadre 300 is characterised by a very low viscosity, high hot tack and a very long open time. It is particularly suited for bonding PVC edging material where the glue is spread on the back of the edge. (See the Characteristics Section below for more information)

### 2. STORAGE

- The product should be stored in a cool dry place for up to 5 years

### 3. PACKAGING

- 20kg sacks

No liability is accepted for any loss or damage arising directly or indirectly from the use of the Company's products. Prospective users should therefore satisfy themselves by appropriate trials that the product to be used is suitable for the intended use.

Purchase of this product is subject to the Terms & Conditions detailed in our Terms of Business - a copy is available on request).

### 4. SUGGESTION FOR USE

- Cadre 300 must be spread in a uniform and continuous coat, with a glue thickness that is suitable for the materials to be bonded. Porous substrates require a higher glue coat, whilst thin edging material requires a lower coat to avoid telegraphing problems on the surface to the edge.  
To avoid irregular glue spread, and consequently bonding defects, regular checks should be made to ensure the glue roller is perfectly parallel with the panel edge.  
The quantity of the glue spread will regulate the open time of the adhesive - the higher the spread of the glue the longer the open time, and vice versa.  
Different edging materials perform in different ways. Before changing materials it is recommended that the adhesion be carefully checked. The heat resistance of the bonded material is strongly influenced by the characteristics of the edging material itself.  
If the edgebander is stopped temporarily, reduce the temperature in the hot melt pot by approx. 30-40°C to avoid oxidation problems and the formation of a crust on the surface of the glue.  
Cadre hot melt adhesives offer good heat resistance. However, many factors can effect this, so tests should be carried out to determine the heat resistance and, in each case to satisfy yourself as to its suitability.  
Adhesive tanks and applicators should be thoroughly cleaned from time to time to prevent the build up around these areas. This build up could result in hot spots, or inaccurate temperature readouts. The tank will contain residue at the end of working, which needs to be removed regularly. The tank sides should also be cleaned to remove any encrustations, which may affect the transfer of heat.  
Ensure there is no dust on the edges - dust can cause defects in gluing as well as imperfect adhesion.  
For Health and Safety information and handling advice please refer to our Health and Safety sheet on this product.  
Cadre 300 is not required to be marked hazardous. However, even at correct working temperatures, vapours are released which can cause unpleasant odours. If the given working temperatures are exceeded for a long period of time, the fumes released may irritate the respiratory system and extraction should be used. In addition the adhesive will begin to degrade and cease to be effective.  
If any application conditions or bonding parameters are changed from those when the product was initially recommended to you, you should first check with our Technical Department for suitability.

### 5. BASE

- EVA Copolymer

### 6. CHARACTERISTICS

- |   |                      |
|---|----------------------|
| - Form  | Pellets (Prills)     |
| - Colour  | Natural/White/ Brown |
| - Viscosity at 220°C and 2.5 RP<br>(Brookfield RVT and Thermoseal) mPas | 20,000 - 40,000      |
| - Melting Point<br>(Ring and Ball ASTM A28)                             | °C 72 +/- 2          |

### 7. OPTIMAL CONDITIONS OF USE

- |                                   |                   |           |
|-----------------------------------|-------------------|-----------|
| - Humidity of materials           | %                 | 8 - 12    |
| - Workplace/ material temperature | °C                | 18 - 20   |
| - Adhesive Temperature:           |                   |           |
| - Roller                          | °C                | 140 - 160 |
| - Tank                            | °C                | 120 - 140 |
| - Optimum track speed             | m/min             | 9 - 12    |
| - Glue Spread                     | g/m <sup>2</sup>  | 180 - 250 |
| - Pressure on rollers             | N/mm <sup>2</sup> | 0.4 - 0.8 |