TEXICRYL® 13-218

Acrylic copolymer emulsion

INTRODUCTION
TEXICRYL® 13-218 is an APEO free self-crosslinking acrylic copolymer emulsion for use as a binder in the manufacture of spray-bonded synthetic fibre waddings. This product is also ideal as a stiffener for window blinds.

CHARACTERISTICS
(Not to be taken as a specification)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids content</td>
<td>%</td>
<td>46</td>
</tr>
<tr>
<td>Viscosity at 25°C</td>
<td>mPa s</td>
<td>75</td>
</tr>
<tr>
<td>(Brookfield RVT, Spindle 2, 50 rpm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td>6.5</td>
</tr>
<tr>
<td>Particle size</td>
<td>nm</td>
<td>135</td>
</tr>
<tr>
<td>Specific gravity at 25°C</td>
<td></td>
<td>1.08</td>
</tr>
<tr>
<td>Emulsifying system</td>
<td></td>
<td>anionic</td>
</tr>
<tr>
<td>Minimum film formation temperature*</td>
<td>°C</td>
<td>0</td>
</tr>
<tr>
<td>Glass Transition temperature</td>
<td>°C</td>
<td>30</td>
</tr>
</tbody>
</table>

* Determined by metal bar with temperature gradient.
APPLICATIONS

TEXICRYL® 13-218 has been developed for use in surface bonding and through-bonding of synthetic fibre wadding. It will effectively prevent penetration of the fibres through the cover fabric, preserve the high loft of the wadding and facilitate handling during the making-up process. It has excellent heat and light-stability, as well as good wash and dry-clean solvent resistance.

TEXICRYL® 13-218 is widely used as a high-loft non-woven fabric binder.

Drying and Curing

Cure of emulsion binders is dependent on the polymer type, catalyst concentration, temperature and time.

TEXICRYL® 13-218 is supplied ready-catalysed and, after drying, must be cured for 2-3 minutes at 140°C. It is recommended that synthetic fibre waddings processed with TEXICRYL® 13-218 be dried and cured in hot-air ovens with efficient air movement to ensure removal of water vapour during the drying phase. When dried and cured under these conditions, TEXICRYL® 13-218 will confer dry-clean resistance, wash-fastness and good recovery from compression. TEXICRYL® 13-218 has an indefinite pot life at normal spray-bonding concentrations (10-25% solids content).

TEXICRYL® 13-218 has a non-detectable formaldehyde level according to Oeko-Tex® testing, ISO 14184-1 2011.

PACKAGING

TEXICRYL® 13-218 is supplied in drums, 1 tonne IBC’s or bulk supplies are delivered by road tanker.

STORAGE

TEXICRYL 13-218® should be stored between 5 and 30°C in the original, unopened container in a dry, well ventilated place. Protect from freezing and direct sunlight.

HEALTH & SAFETY

Please see separate material safety data sheet

Issue No. 4 Sept-17

All information on this data sheet is based on laboratory testing and is not intended for design purposes. Scott Bader makes no representations or warranties of any kind concerning this data. Due to variance of storage, handling and application of these materials, Scott Bader cannot accept liability for results obtained. The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication.

SCOTT BADER COMPANY LIMITED
Wollaston, Wellingborough, Northamptonshire, NN29 7RL
Telephone:  +44 (0) 1933 663100
Facsimile:  +44 (0) 1933 666623
www.scottbader.com