Lascaux Acrylic Dispersions

Medium for Consolidation

**Base**
Finely dispersed, aqueous dispersion of an acrylic copolymer.

**Properties**
- dries to a clear and flexible film
- light-fast and age-resistant
- excellent penetrating power
- solids content: 25%
- MFT (Minimum film formation temperature): approx. 4°C
- pH: approx. 8-9

**Solubility**
Dispersion dilutable with water. Film soluble in esters, aromatics, acetone, MEK.

**Applications**
The Medium for Consolidation has been developed in cooperation with the Swedish National Heritage Board for the consolidation of paint layers in medieval poly-chromy on wood.
The Medium for Consolidation has excellent penetrating power due to its low viscosity. This allows for the safe and efficient consolidation of loose and chalking paint layers, even on water sensitive surfaces such as gilding or thin layers of distemper. These can be consolidated without swelling or spotting on wooden or textile supports.
The concentration of the medium can be adjusted by addition of distilled water. Prior to application of consolidant, white spirit can be used as wetting agent. Excess Medium of Consolidation can be removed completely with acetone or xylol after a drying time of approx. 24 hours.
The Medium for Consolidation has been successfully used on various objects in numerous Swedish restoration studios.

**Safety**
Please observe safety information on the safety data sheet.

**Storage**
Keep containers closed, when not using the product. Store at constant temperature between 5°C and 25°C. Undesired sediments which might appear during storage, can be strained with a filter before application.

**Size**
Bottles in 250ml, 500ml and in 1l.

Plextol D 498, Plextol B 500

**Base**
Plextol D 498
Aqueous pure acrylic dispersion of a copolymer based on ethyl acrylate and methyl methacrylate.
Plextol B 500
Aqueous pure acrylic dispersion of a copolymer based on butyl acrylate and methyl methacrylate.

**Properties**
- Thermoplastic, high transparency, lightfast resistant.

**Solubility**
Dilutable with water.

**Use**
Binder for consolidation primers and paint layers.

**Plextol D 498**
Medium polymer hardness (harder than Plextol B 500), good water glass resistance and weathering stability.

**Plextol B 500**
Medium polymer hardness, good frost resistance.

**Application**
Dilutable with water, frost-sensitive, don’t use it below 5°C.

**Safety**
Please observe safety information on the safety data sheet.

**Storage**
Keep containers closed, when not using the product. Store at constant temperature between 5°C and 25°C. Undesired sediments which might appear during storage, can be strained with a filter before application.

**Size**
Bottles in 1l.

**Literature**
### Dispersion:

<table>
<thead>
<tr>
<th>Name</th>
<th>Plextol D 498</th>
<th>Plextol B 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid content</td>
<td>50 ± 1</td>
<td>50 ± 1</td>
</tr>
<tr>
<td>Average particle diameter</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>pH-value</td>
<td>9.0 ± 1.0</td>
<td>9.5 ± 0.5</td>
</tr>
<tr>
<td>Viscosity (Brookfield, 6 Upm)</td>
<td>3000 - 10000</td>
<td>1000 - 5000</td>
</tr>
<tr>
<td>Density</td>
<td>1.05</td>
<td>1.07</td>
</tr>
<tr>
<td>Surface tension</td>
<td>44</td>
<td>43</td>
</tr>
<tr>
<td>Min. film forming temperature</td>
<td>5</td>
<td>7</td>
</tr>
</tbody>
</table>

### Film:

<table>
<thead>
<tr>
<th>Name</th>
<th>Plextol D 498</th>
<th>Plextol B 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>State of film</td>
<td>transparent, non-adhesive</td>
<td>transparent, slightly adhesive</td>
</tr>
<tr>
<td>Glass transition temperature</td>
<td>13</td>
<td>9</td>
</tr>
<tr>
<td>Hygroscopicity (24)</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Tensile strength at break</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>400</td>
<td>500</td>
</tr>
</tbody>
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