

# Betolin<sup>®</sup> Q 40

## Low VOC stabilizer for potassium silicate binders in silicate emulsion paints and plasters

<b>Chemical description</b>	Betolin Q 40 is a low viscosity, aqueous solution of special hydrophilic alkoxyated alkylammonium compounds.									
<b>Mode of action</b>	Betolin Q 40 has an influence on the polysilicates and silicic acid micelles of potassium silicate binders. It stabilises the polysilicate cations and thereby reduces post-thickening and strong viscosity rise of paints and plasters on storage.									
<b>Specification (average values)</b>	<table border="0"> <tr> <td>Density (20°C):</td> <td>approx. 1,02/cm<sup>3</sup></td> <td>042 *</td> </tr> <tr> <td>pH (conc.):</td> <td>approx. 10,4</td> <td>008 *</td> </tr> <tr> <td>Viscosity (20°C):</td> <td>approx. 5 mPas</td> <td>053 *</td> </tr> </table>	Density (20°C):	approx. 1,02/cm <sup>3</sup>	042 *	pH (conc.):	approx. 10,4	008 *	Viscosity (20°C):	approx. 5 mPas	053 *
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	<i>*) Internal method code – description available on request</i>									
<b>Properties</b>	<ul style="list-style-type: none"> <li>- Contains only small traces of organic solvent residues (VOC),</li> <li>- achieves viscosity stability during the storage of paints and plasters,</li> <li>- this action is further boosted by the inclusion of Betolin A 11 and Sapetin D 20,</li> <li>- supports the incorporation of inorganic pigments and fillers,</li> <li>- improves the Betolin binders' stability to electrolytes,</li> <li>- promotes the improvement in adhesion of paints and plasters to the substrate,</li> <li>- improves suppression of chalking,</li> <li>- can promote the reduction of formation of stains on coloured coatings.</li> </ul>									
<b>Application</b>	Betolin Q 40 stabilizes the silicate binders Betolin K 28, Betolin K 35, Betolin K 42, Betolin P 35 and Betolin P 50 in silicate emulsion coating systems. Betolin Q 40 is added in proportions of 0.5 - 1.0 % to formulations for paints and 0.2 - 0.5 % to formulations for plasters. A further improvement in stability is obtained through the inclusion of 0.5 - 1.0 % Betolin A 11.									
<b>Note</b>	According to the information at our disposal, Betolin Q 40 does not exert any harmful effects on health, provided that the usual safety and industrial hygiene precautions relating to handling of chemicals are observed together with the information given in our Safety Data Sheet.									
<b>Storage</b>	Betolin Q 40 must be protected from frost during storage. Its shelf life in tightly closed containers is at least six months.									
<b>Labelling / Safety</b>	Not classified as dangerous according to EC Guidelines and German Ordinance on Hazardous Materials (GefStoffV).									