

# ECAP<sup>®</sup> STP

## Silicate Paint



### POTASSIUM SILICATE-BASED WALL PAINT

#### ECAP<sup>®</sup> STP - Silicate Paint Potassium silicate-based wall paint

<p><b>PRODUCT</b></p>	<p>Ecap<sup>®</sup> STP is a micro-coating for exterior use, based on potassium silicates in aqueous dispersion and siliceous aggregates. It complies with DIN 18363 regarding silicate purity. The product combines strong adhesion with high water vapour permeability, making it ideal both for application on new substrates and for aesthetic restoration of existing façades. The careful selection of raw materials ensures excellent adhesion properties, as it chemically reacts with mineral substrates through a natural process known as silicatisation. Suitable for both new and existing surfaces, it offers a high level of whiteness along with good water repellency. Thanks to its fine texture, it can be applied by brush, roller, or airless spray. It can also be tinted in a wide range of colours.</p>
<p><b>PACKAGING AND STORAGE</b></p>	<ul style="list-style-type: none"> <li>· Bucket of 20 kg</li> <li>· Store in the original and closed package. Use within 12 months.</li> </ul>
<p><b>CONSUMPTION / YIELD</b></p>	<p>0,250 - 0,350 kg/m<sup>2</sup></p>
<p><b>FIELDS OF APPLICATION</b></p>	<p>Ecap<sup>®</sup> STP is suitable for decorating interior and exterior substrates, both new and existing, on residential, industrial, or commercial buildings. It is recommended to apply the product on fully cured substrates, with a minimum curing time of four weeks.</p> <p>It can be applied on the following substrates:</p> <ul style="list-style-type: none"> <li>· Lime-based civil finishes.</li> <li>· Cement-based civil finishes.</li> <li>· Gypsum (a primer is required in case of very low absorbency skim coats).</li> <li>· Previously painted surfaces, after thorough inspection and cleaning of the substrate.</li> <li>· Concrete.</li> </ul> <p>For application on substrates not listed above, please contact the <i>Edilteco Technical Department</i>.</p>
<p><b>ADVANTAGES</b></p>	<ul style="list-style-type: none"> <li>· <b>Mineral-based:</b> its composition, formulated with inorganic binders, makes it ideal for those seeking a mineral, odourless paint for the coating of exterior mineral systems.</li> <li>· <b>Versatility:</b> thanks to its fine particle size distribution (&lt; 100 microns), it can be applied both manually (by brush or roller) and mechanically (using airless spray equipment).</li> <li>· <b>High breathability:</b> the careful selection of raw materials, combined with the inherent properties of silicate, gives the paint excellent water vapour permeability values.</li> <li>· <b>Excellent adhesion:</b> the formulation, based on pure silicates, ensures outstanding adhesion properties, as it chemically reacts with mineral substrates through a natural process known as silicatisation.</li> </ul>
<p><b>APPLICATION</b></p>	<p><b>Substrate preparation:</b> mechanically remove all friable or delaminating parts. In case of localized removal, reconstruct the affected areas using suitable products to restore proper flatness. Clean the surfaces thoroughly to eliminate any traces of dust, detergents, oil-based substances, mineral greases, etc. For new and/or non-uniform surfaces, it is mandatory to pre-treat the substrate with Ecap<sup>®</sup> F primer/fixative to even out and reduce absorption. On existing surfaces showing signs of chalking, apply a deep-penetrating fixative to consolidate and stabilize the surface.</p> <p><b>Product preparation:</b> Ecap<sup>®</sup> STP can be diluted with clean water as follows:</p> <ul style="list-style-type: none"> <li>· <b>brush or roller application:</b> 25% for the first coat - 20% for the second coat;</li> <li>· <b>airless application:</b> 25%.</li> </ul> <p>After dilution, it is recommended to mix the paint for a few minutes using a drill with a mixing paddle to ensure a homogeneous consistency.</p>



APPLICATION	<p><b>Application:</b> Ecap® STP must be applied manually (with brush or roller) or using an airless spray, in two or more criss-cross coats, until full coverage and the desired finish are achieved. For multiple coats, allow approximately 3 hours between applications. Highly absorbent substrates or unfavorable climatic conditions (areas exposed to strong drafts, high temperatures, etc.) may significantly reduce the open time of the paint, sometimes to just a few minutes. Therefore, it is essential to monitor the product during application to ensure that no surface film forms and that it does not dry too quickly. Under ideal conditions, Ecap® STP reaches a suitable curing level for further processing after approximately 3 hours (at +20 °C and 70% R.H.), and full curing occurs 24 hours after the final coat. Do not apply Ecap® STP on substrates with surface water, wet surfaces, or under extreme conditions (e.g., walls exposed to direct sunlight or frozen substrates). Ensure that both ambient and substrate temperatures during application are between +5 °C and +35 °C.</p>	
TECHNICAL CHARACTERISTICS	Physical aspect:	white liquid
	Dilution:	20% - 25%
	Drying time:	~ 3 - 4 hours at +20 °C to the touch ~ 24 hours at +20 °C to complete drying
	Application temperature:	from +5 °C to +35 °C at 70% R.H.
	Binder:	potassium silicate
	Specific weight:	1,60 kg/L
	Filth-grip:	low
	Brilliance:	very matt
	VOC (Directive 2004/42/ CE) for the coating of external walls (Cat A/c):	< 30g/L of VOC
WARNINGS	<p><b>Usage instructions:</b></p> <ul style="list-style-type: none"> <li>· For each project, use materials from a single production batch.</li> <li>· Products from different batches may result in slight colour variations.</li> <li>· Do not use different batches within the same room or in adjacent areas.</li> </ul> <p>· Do not apply on frozen or thawing supports.</p> <p>· In case of critical supports it is necessary to check them in advance. Contact <i>Edilteco Technical Department</i>.</p> <p>· Store the primer buckets in a place protected from direct sunlight and at temperatures not lower than +5 °C, in order not to compromise the quality of the material.</p> <p>· Always check the material before application, to make sure that the colour matches the required one.</p> <p>· Any complaint relating to the colour will not be accepted after application.</p> <p>· It is not possible to guarantee a drying without colour differences (spots) caused by:</p> <ul style="list-style-type: none"> <li>» the possible different atmospheric and physical conditions of the building;</li> <li>» the correspondence of a scaffolding;</li> <li>» the conditions of the support (such as structure, absorbency, etc.);</li> <li>» the use of natural raw materials.</li> </ul> <p>· Protect from direct sunlight and heavy rain for the first 48 - 72 hours. Actual temperature and air humidity can accelerate or slow down the drying process.</p> <p>· Protect eyes and hands during application.</p> <p>· Wash the tools with water after using the product.</p> <p>· For information regarding the correct disposal, storage and handling of the product, consult the <i>safety data sheet</i>.</p>	
SPECIFICATION FORM	Coloured silicate-based wall paint, ready to use. A water-based solution containing silicates, mineral components, pigments, stabilizers, and additives.	
<p>All the indications provided in this technical data sheet are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to "workmanlike" execution. Edilteco S.p.A. reserves the right to change the contents of this mechanical data sheet on its final judgements. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.</p>		