

# Technical data sheet

## esa-one paint 1A10

**esa-one paint 1A10** is a chemical specialty line based on “all in one additive” technology.

It combines the functions of different additives for an easy and rapid production of waterborne paints and paste systems.

**esa-one paint 1A10** speeds up the production process because it allows the reduction of the number of components in the formulation.

**esa-one paint 1A10** is easy dispersible in water without any lumps formation; it dissolves without any addition of alkali.

**esa-one paint 1A10**, due to its particular physical form, is easy to handle and does not develop any undesirable dust.

### Chemical-physical characteristics

<b>Chemical description:</b>	anionic etherified macropolymers
<b>Appearance:</b>	ivory pellets
<b>Moisture:</b>	10% max
<b>Bulk density:</b>	0.6 - 0.8 g/ml
<b>Solubility:</b>	complete in hot and cold water
<b>Brookfield RVT viscosity:</b>	2000 - 4500 mPa*s (6% w/w water sol., 20°C, 20 rpm)
<b>Incompatibility:</b>	free bivalent ions

### Orientative waterborne paint formulation:

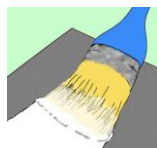
water	28
biocide	0.2
<b>esa-one paint 1A10</b>	1 - 2
titanium dioxide	1
amorphous calcium carbonate	50
crystalline calcium carbonate	15
alkali agent*	0.2
latex emulsion	4.5

\*alkali agent only if necessary to adjust pH close 9

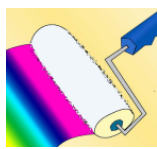
### Paint characteristics:

PVC :	92 %
Density:	1.69 - 1.72 g/ml
<b>esa-one paint 1A10</b>	1.1 %    1.5 %
Brookfield viscosity 20 rpm; 20 C (mPa*s)	12000    24000
Stormer viscosity 20 C (KU)	116    136

### Main applications and dosages



High PVC water-based  
paints: **0.5 - 2%**



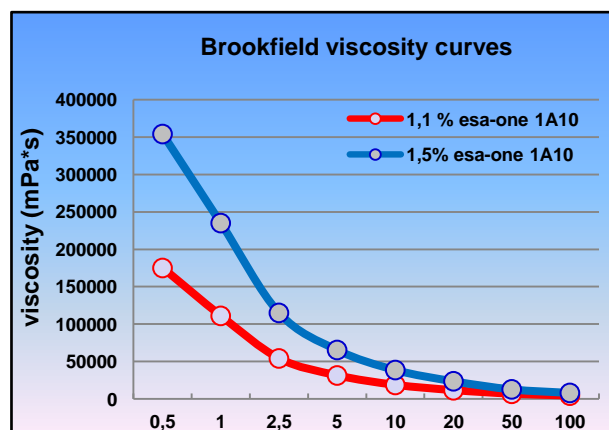
The dosages are referred to the total formulation

### Packing and storage

**esa-one paint 1A10** is available in 25kg multi-layer paper bags with polyethylene internal layer.

The product is hygroscopic and should be stored in its original packing in cool and dry conditions.

If stored in these conditions **esa-one paint 1A10** does not change its properties in the period of 12 months from the date of production.



We suggest a preliminary test in the lab to find the optimal dosage of **esa-one paint 1A10** for each system considered.