

# CASUL® PROTECT 30

> Product Data Sheet:

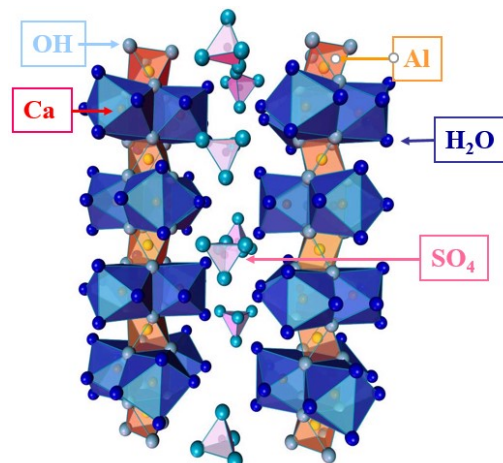
**CASUL® PROTECT 30** is a product based on a highly concentrated CASUL® dispersion (slurry) and a pure acrylate.

**CASUL® PROTECT 30** differs from the pure binder by its amount of the white mineral CASUL® and the resulting property that no preservatives are required any more.

> Chemical composition	
■ Chemical identification:	Calcium aluminate sulfate
■ Chem. formula:	$3 \text{CaO} \times \text{Al}_2\text{O}_3 \times 3 \text{CaSO}_4 \times 32 \text{H}_2\text{O}$
■ CaO:	approx. 13,5 %
■ Al <sub>2</sub> O <sub>3</sub> :	approx. 8,0 %
■ Fe <sub>2</sub> O <sub>3</sub> :	< 0,1 %
■ Na <sub>2</sub> O:	approx. 0,3 %
■ Water of hydration:	45 %
■ Chemical identification:	Styrene acrylate dispersion
■ Chem. formula:	$[\text{C}_2\text{COOR}]_n$ (R= Rest)

> Technical data and properties	
■ Appearance:	white dispersion
■ Crystal habit:	needle-like
■ Spec. gravity:	approx. 1,27 g/cm <sup>3</sup> (20°C)
■ pH value:	approx. 12
■ Viscosity (Brookfield):	40 – 80 mPas (20°C)
■ Dry matter:	approx. 60 % (measurement at 40°C)
■ Minimum Film Formation Temperature:	1 °C

Ettringite, with about 45% by weight of water, is one of the minerals with the highest content of water of crystallization and is therefore voluminous and light.



**> Applications**

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|---|--|
| <ul style="list-style-type: none"><li>■ Paintindustry</li><li>■ Fire protection</li></ul> | <p>White mineral in high-covering and pollution-free dispersion wall paints</p> <p>In building materials and colors: Due to the high proportion of water of crystallization (45%) CASUL® increases fire protection in rooms and buildings.</p> |
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**CASUL® PROTECT 30** has a high hiding power (opacity), a high degree of whiteness and is characterized by natural adhesive properties (felting of needle-like crystals). Due to the needle-like shape and the high water content in the crystal matrix of over 45%, light, voluminous lines of high opacity and high whiteness are ensured.

A thickened **CASUL® PROTECT 30** - slurry dries very quickly after application and then results in a bright white, smooth mineral film of crosslinked and felted crystals. By adding organic binders, the abrasion resistance and weather resistance can be further increased.

**CASUL® PROTECT 30**

- Optimal flame retardancy - with a water of crystallization content of 45%.
- Without addition of biocides and preservatives
- Suitable for the production of biocidal and preservative-free products

**Handling / Storage / Application**

**CASUL® PROTECT 30** is preferably supplied in containers of 1000 liters. Prior to use, the slurry must be homogenized by stirring. Homogenization in IBC is required 1 to 2 times a month. **CASUL® PROTECT 30** can be stored in VA- or PE-plastic containers, aluminum or non-ferrous metals are unsuitable. It should be stored frost-free and protected from direct sunlight.

Es gelten die allgemeinen Geschäftsbedingungen der **REMONDIS** Production GmbH.