



# ANTI-CAKING AGENT

Application  
and  
Product  
Information

## **incomp** as anti-caking agent for re-dispersible polymer powders

Why you need an anti-caking agent and how does this product add value to your production?

# incomp

SE Super & SE Super D

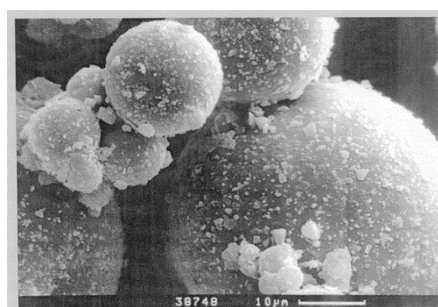
### **Why necessary in your production**

Re-dispersible polymer powder is produced by typical spray-drying polymer dispersions which are used as binder in wall paints, plasters, joint seals and construction adhesives. To remember, in an emulsion binder the polymer is dispersed in water (not solved). After drying in a big tower by a hot air stream, little marbles of the polymer stay behind finally. Typically, with a diameter between 80µm and about 100µm. Depending on the chemical characteristic of the polymer, they are more or less soft.

The softer the polymer particles the more they tend to stick together. This happens especially during transport and storage when pressure, humidity and, especially temperature stress the particles.

### **Function of anti-caking-agents**

- to cover the surface of the polymer particle,
- to avoid particles to stick together,
- to be a spacer and fluidizing agent.





## Products used for anti-caking

	precipitated amorphous silica	incomp SE Super	incomp SE Super D	Carbonates	Natural kaolin	Calcined kaolin
<b>Flowing</b>	positive	positive	positive	positive	positive	positive
<b>Re-dispersible</b>	positive	positive	positive	positive	positive	positive
<b>Addition</b>	up to 14%	10-12%	7-12%	10-16%	10-14%	10-14%
<b>Keeps dry</b>	***	**	**	*	**	***
<b>Storage capability under tropical conditions</b>	****	****	****	*	*	***
<b>Cost-performance ratio</b>	**	****	****	**	**	***

\*poor \*\*average \*\*\*good \*\*\*\*excellent

**incomp** is a co-milled product based on talc and dolomite. Based on several indicators, incomp SE Super and SE Super D show the best performance as anti-caking agent. The relative high addition of most of the products is an additional advantage for the producer because it is sold with the price of the polymer.

## Application of re-dispersible polymer powders

These products are mainly used as an additive in gypsum and cement based constructions materials to increase flexibility, the adhesion to different building materials, to improve the water resistance, the workability, and to act as an extraordinary coupling and bonding agent. They are ready-to-use dry systems which are stirred into water just in the moment of the application. The perfect reliable re-dispersion properties (re-dispersibility) has considerable importance in all these application fields.

### Typical use and dosage:

Floor / Wall filler	1,5 - 2,5 %
Tile adhesives	2 - 7 %
Thermo-Insulating filler or adhesive	4 - 6 %
Plasters	1 - 5 %
Joint filler	2 - 20 %
Powder Emulsion plaster	8 - 15 %
Powder Emulsion wall paints	15 - 20 %

### incomp as anti-caking agent for re-dispersible polymer powders

- Free flowing powder after storage and transport
- Excellent anti-caking agent
- Excellent re-dispersibility in water

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