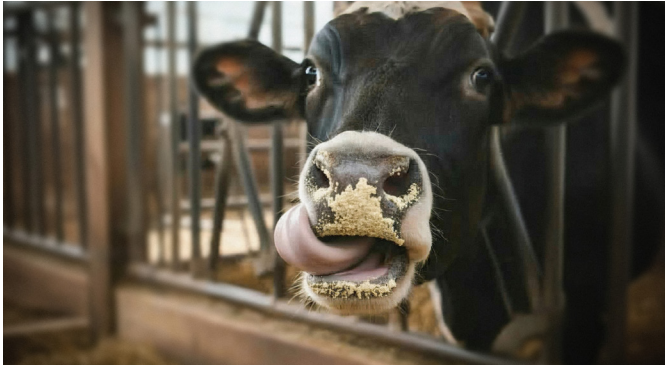


SIPERNAT® D 17 for Improved Powder Flow and Caking Prevention in Phytochemicals/Plant-based Feed Additives



Many powdered plant-based feed additives (also known as phytochemicals/botanicals) are hygroscopic, sticky, and generally difficult to handle. SIPERNAT® D 17 is perfectly suited to reduce particle adhesion. When coated with SIPERNAT® D 17, flowability is improved and caking is prevented. Low dosage levels are effective in keeping powders free flowing.

SIPERNAT® D 17 – The unique moisture protection agent

SIPERNAT® D 17 precipitated hydrophobic silica is a specialty free-flow & anti-caking aid. Due to its hydrophobic surface, it prevents hygroscopic/sticky powders from adsorbing moisture. Low dosage levels are effective in keeping powders free flowing during the production process and storage over an extended period, even under challenging environmental conditions.



Products which may benefit from SIPERNAT® D 17

- Plant extract absorbates (containing high levels of saponins like yucca, ginseng or fenugreek extract)
- Plant extract powders, containing moisture-sensitive/hygroscopic ingredients like sugars or organic compounds/acids, e.g. Aloe Vera, green tea, fruit or beetroot extract

Anticaking impact and flowability improvement of a seed extract absorbate

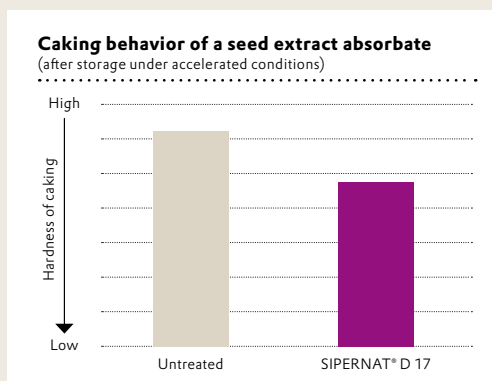
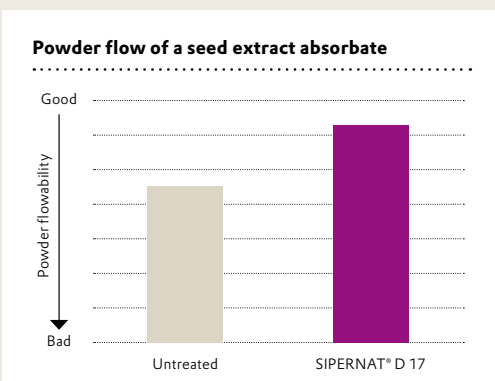


Figure 1 and 2
At just 0.5% dosage, SIPERNAT® D 17 increased seed extract absorbate powder flow by 40% and reduced its caking behavior by 25%

