

TeraSorb™



natural absorbent

Actera

**TeraSorb** a clean-label, natural, polymer that absorbs water, oils, and improves the stability of formulations. Compliant with all global natural cosmetic standards.

Unique potato crop bred through natural selection (non-GMO) to produce a native high-amylopectin starch with significantly improved stability, less likely to retrograde or cause syneresis.

### Physical Description

Powder

### INCI

Solanum Tuberosum (Potato) Starch

### Benefits

- Highly absorbent of sweat and oils
- Clean-label, non-synthetic
- Easily dispersible in water or oil phases
- Enhances skin feel and reduces greasiness without swelling
- Swelled, it forms a thermo-reversible gel that enhances rheology and stability

### Applications

- Deodorant
- Dry Shampoo
- Body Powder
- Pressed Powders
- Loose Powders
- Soap Bars
- Creams
- Lotions
- Primers
- Serums

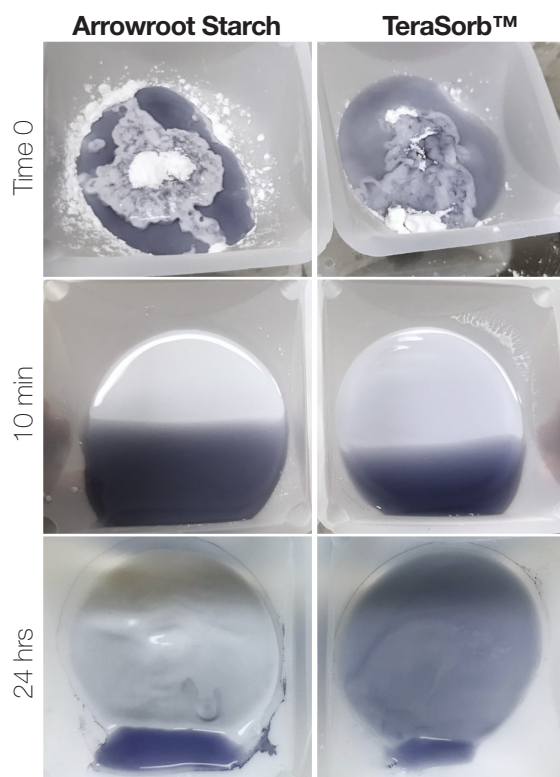
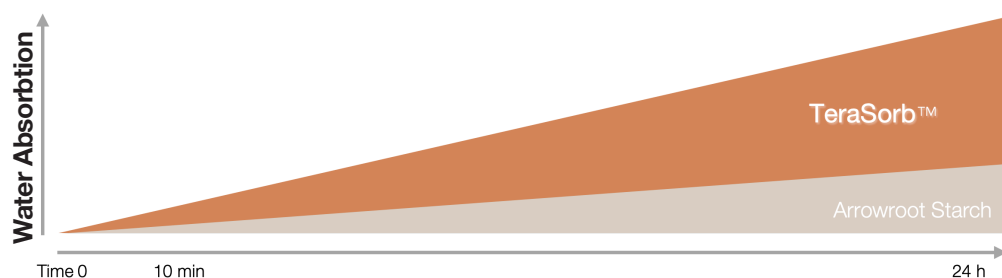


## Formulation Guidelines

- 2-5% in Lotions and Primers
- 4-6% in Sun Care Gels
- 10-15% in Baby Lotion (European "liquid talc" formulation)
- Up to 30% in Deodorants
- 50% or more in Dry Shampoo
- Use without swelling as a feel enhancer and absorbent. Add to oil or water phase while the product cools down under gentle mixing. Do not expose to temperatures higher than 65°C to prevent swelling.
- Use as a gelling agent by heating in water phase to above 70°C and maintaining for 5-15 minutes.

## Performance

**TeraSorb** binds to water and water-soluble materials faster. TeraSorb also absorbs a lot more water and water-soluble materials than other conventional native starches.



### Procedure:

- Equal parts of blue-tinted water were added to containers containing the same amount of either TeraSorb or arrowroot starch.
- Powders and tinted water were mixed with a spatula until uniform, and let sit for observation.

### Results:

- At time 0, TeraSorb started binding to water and colorant much faster than arrowroot starch.
- Within 10 min, TeraSorb had absorbed more water and colorant than the alternative.
- After 24 h, TeraSorb had absorbed a substantially greater amount of water and colorant than the arrowroot starch.

# Actera

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