



Syloid® FP Silicas in Pharmaceutical Film Coatings:

Film coatings are widely used in pharmaceutical oral dosage forms such as tablets, pellets, granules and drug crystals. Coatings are used for a variety of reasons including to mask tastes, improve stability, ease swallowing, assist identification, and more. Recently, film coatings have also shown encouraging results to enable the oral delivery of peptide therapeutics.

Syloid® FP silicas are used as excipients in many pharmaceutical formulations due to their unique morphology. The combined adsorption capacity, porosity, particle size and greater surface area allow them to provide several benefits simultaneously which can expedite manufacturing and improve efficacy of the final dosage form.

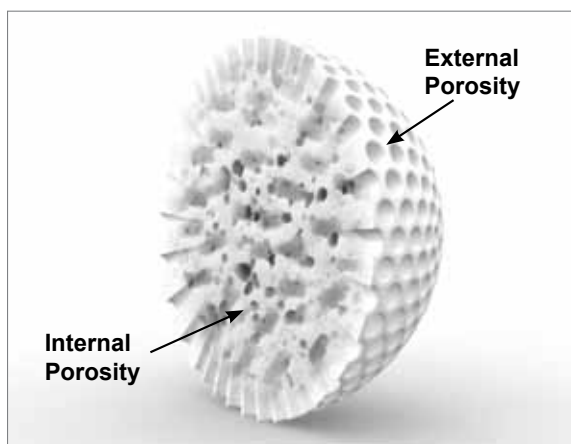
Syloid® FP silica can be used in polymeric coating systems and combined with cellulosic, vinylic, and acrylic-based polymers or combinations thereof. In these coatings in particular, Syloid® FP silica offers several benefits.



Applications:

- Anti-tacking agent
- Oral peptide delivery
- ODT formulations
- Enteric coatings
- Sustained release coatings
- Controlled release coatings

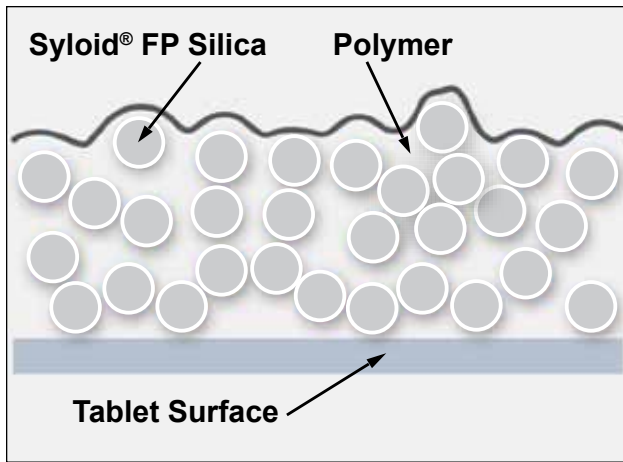
Advantages Syloid® FP Silica Will Bring to Your Aqueous or Solvent Based Coatings:



The combined internal and external porosity of Syloid® FP silica gives it greater available surface area.

In standard concentrations - Adding Syloid® 244FP silica to your film coating

- Improves spray properties
- Eliminates need for talc
- Improves suspension properties
- Prevents valve clogging
- Minimizes settling in spray lines
- Smooths tablet surface
- Reduces adhesion

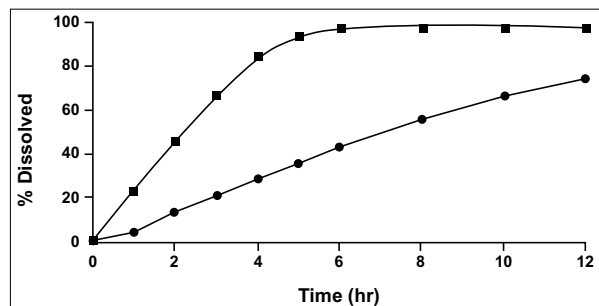


Syloid® FP silica imparts micro-rough surface to the film resulting in higher surface area, less contact and less blocking between the individual film coated tablets, creating anti-tacking properties.

The Unique Micronized Porous Structure and Morphology of Syloid® FP Silica has Additional Benefits:

When Used in Higher Concentrations

- Improves stability
- Improves anti-tacking
- Improves wettability
- Improves permeability of film coating
- Improves dissolution profile



Dissolution profile of tablets coated with a mixture containing pyrogenic silica (—●—) and same tablets coated with a mixture containing Syloid® 244FP silica (—■—)

Expect More

By expecting more from your excipient and developing a collaborative relationship with the manufacturer, you can gain valuable insights on improving your formulations.

Excipients are emerging as strategic drug development tools in today's challenging pharmaceutical landscape. Partner with Grace to learn more about multi-functional excipients, gain confidence in product quality, and develop future drug delivery solutions.

Syloid® FP silicas are specifically cited in numerous patents due to their unique properties that improve the handling, adsorption, dissolution of many pharmaceuticals. Learn how Syloid® FP silicas can benefit your formulation.

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