



EFFICIENT PASSIVATION OF PITCH AND STICKIES IN PULPING AND PAPERMAKING

Cartaspers® PLH liq

- / Specifically designed for high performance in soft water environments
- / Organic adsorbent with high attraction to pitch and stickies
- / Replaces both the dispersant and the adsorbent chemicals, significantly reducing treatment costs
- / FDA and BfR approved



CARTASPERS® PLH liq

Efficient passivation of pitch and stickies in pulping and papermaking

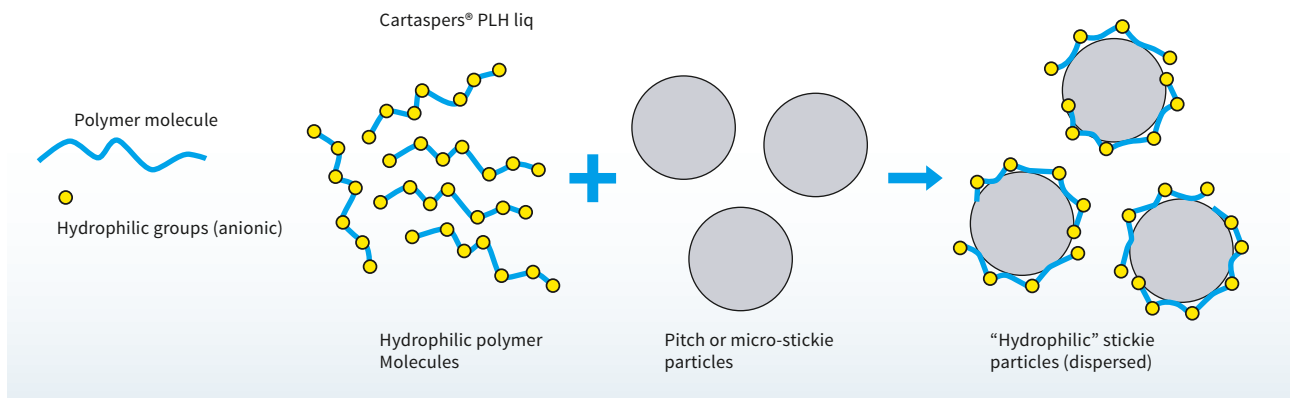
Cartaspers® PLH liq, a recent addition to Archroma’s Deposit Control range, is an anionic polymeric adsorbent with strong affinity for non-polar (hydrophobic) surfaces, such as those found in pulping (pitch particles) and in papermaking with recycled fiber (stickies). Employed as a pulping or wet-end additive, this polymer solution displays typical adsorbent properties. Possessing both hydrophobic

and hydrophilic sections within the polymer chain, the adsorption mechanism targets only hydrophobic components in the pulp and ignores any cellulosic material.

Adsorbed polymer creates a hard hydrophilic shell around the pitch and/or stickie particles, helping to passivate the contamination and prevent agglomeration and deposition.

The high glass transition temperature of the polymer (> 125°C) ensures that treated particles cannot coalesce to form larger agglomerates. Once adsorbed, the film is resistant to water and attrition from the fibers in the pulp slurry. The anionic character of the adsorbed film provides dispersing power, which also helps to maintain separation between pitch or stickie particles.

Mechanism of adsorption of polymeric surfactants, such as **Cartaspers® PLH liq**:



Dosage

An addition level of 0.5 to 1.0 kg/t (based on the equivalent of dry pulp) is sufficient for a significant reduction in the amount of deposition.

Key characteristics and benefits:

- > Very efficient to prevent deposition of stickies and natural pitch
- > Easy application, no need for a pre-preparation
- > No foaming
- > Works both in low and high hardness environments
- > Doesn't release any old pitch / stickies deposits
- > Can be used in all washing stages
- > Designed to resist high alkaline environments, i.e., brown-stock washing, oxygen delignification and peroxide bleaching stage

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