



Corium International Inc.
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A revolution in drug delivery

Corplex™ Polymer Technology



Overview

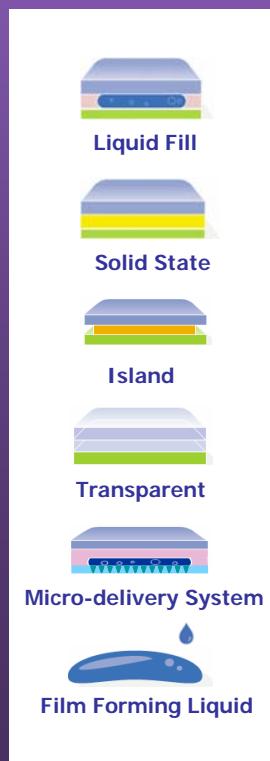
Corplex is a versatile polymer technology that can be delivered in liquid, semi-liquid and solid formats for many drug delivery and medical product applications. It consists of a composite blend of polymers with unique adhesive, physical/chemical, and water-absorbing properties. Corplex offers a range of hydrophilic to hydrophobic properties, enabling excellent adhesion to both dry and wet surfaces and a variety of wear times (seconds to days).

This full range of capabilities offers significant benefits compared with existing pressure sensitive adhesives, which adhere poorly to moist skin and are not suitable for highly hydrated and soft biological tissue applications, such as oral mucosa. Compared to typical bioadhesives, Corplex has superior adhesion and tensile strength. Corplex is highly compatible and can be integrated with Corium's MicroCor™ technology, enabling needle-free delivery of therapeutic peptides, proteins and vaccines.

Patent Protected

The current patent portfolio surrounding Corplex consists of 81 issued and pending U.S. and international patents covering adhesive design and manufacturing, biocompatible adhesives, hydrogels and delivery systems.

Corplex provides the basis of several dosage formats:



Attribute	Corplex 100	Hydrophobic PSA	Corplex 200	Hydrophilic Bioadhesive
Peel Adhesion (N/m) ▪ Dry state ▪ Wet state	370 550	300 – 600 None	None 350	None 10 – 60
Solubility in water	Soluble	Insoluble	Insoluble/ Swellable	Insoluble/ Swellable
Water sorption capacity	Not limited	<1%	96%	98%
Film forming capacity	Yes	Yes	Yes	No
Tensile strength (MPa)	3.7 – 4.9	16	30.4	.01

To learn more about Corium technologies, development or licensing opportunities, contact:

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