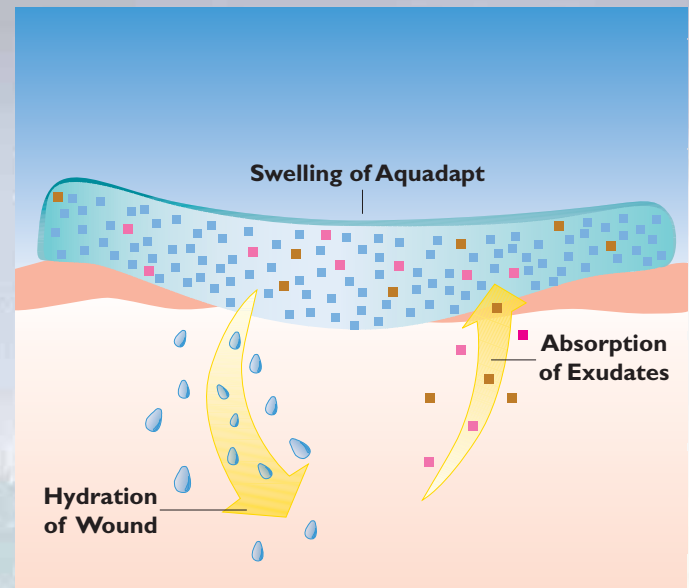
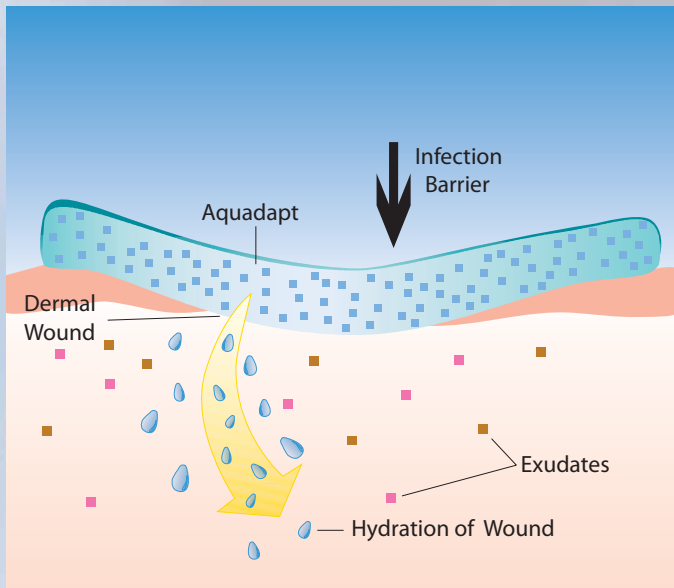


HYDROMER® AQUADAPT® MEDICAL HYDROGEL



- Novel wound protecting capabilities
- Bio-compatible and non-irritating
- Oxygen permeable polymer
- Bio-effective via infection control

- High wound exudate absorption
- Non-adherence to wound bed
- No distortion of initial cell growth
- Reduces scarring

Medical Hydrogel System

Hydromer® Incorporated introduces a new and improved family of patented hydrophilic polymers, incorporating chitosan derivatives complexed with polyvinylpyrrolidone (PVP). These highly bio-compatible polymer systems naturally complex with one another to form gels, possessing excellent physical strength and stability. Various bio-compatible and pharmaceutically accepted ingredients can be incorporated to modified mechanical properties to suit specific customer requirements for internal and/or external applications.

WOUND CARE HYDROGELS

INTEGRITY OF AQUADAPT® HYDROGEL IN PBS

Aquadapt®

Hydrocolloid



Time = 0

Aquadapt®

Hydrocolloid



Time = 1 HOUR

Hydrocolloid begins to disintegrated.

Aquadapt®

Hydrocolloid



Time = 4 Hours

Hydrocolloid shows extensive disintegration.

Aquadapt®

Hydrocolloid



Time = 48 Hours

Hydrocolloid dissolved,
integrity of Aquadapt retained.

BIOLOGICAL DATA

- Safe
- Non-toxic
- Non-irritant
- Bio-compatible
- Bio-stable for live cell transfer
- Some formulations can be bio-resorbable
- Some formulations are suitable for non-reversible implant drapes
- Can incorporate numerous actives
- Mechanical properties can be tailored
- Oxygenation permeable
- A cutting edge hydrogel system

COMPATIBILITY

- Salicylic Acid
- Acetylsalicylic Acid
- Aloe Vera
- Ascorbic Acid
- Glycerin
- Most Polysaccharides
- Collagen
- Silver Zeolite
- Vitamins A, K
- Zinc Oxide, Zinc Pyrithione
- Chlorhexidine Acetate or Gluconate
- Fibroblastic cells
- And many others

FUNCTIONAL CHARACTERISTICS

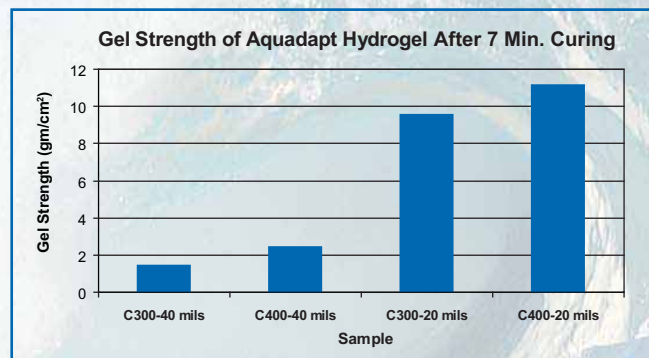
PRODUCT CHARACTERISTIC FOR FORMULA 300 AND 400

2 Components System including Solutions Part A & B		
	300 & 400 (Part A)	300 & 400 (Part B)
Active Ingredients	PVP Solution	Chitosan Solution
Brookfield Viscosity	8000 cps	15500 cps
pH (As is)	5.0 -6.0	7.5 - 8.5

Finished Product Processing Parameters		
	300	400
Finished Product	300	400
Gel Time (seconds)	20-40	15-30

GENERAL DESCRIPTION

Aquadapt® Medical Hydrogel is a Chitosan/PVP non-cytotoxic gel, with very low endotoxin. It can be crosslinked without using elevated temperatures or high energy sources like Gamma Irradiation. Our wound dressing hydrogels can easily be processed into films of various thicknesses, on various substrates using conventional coating machines. Our 2-part hydrogel system can simply be pressured out of a cartridge or pumped through 2 separate delivery lines and mixed uniformly when passed through a “static” mixing tube. The mixed solution is then converted into a gel coated to a selected substrate, and calendered into the desired thickness.



APPLICATIONS

- Island dressings & wound dressings
- Burn wraps
- Surgical drapes
- Drug delivery
- Tissue scaffolding
- Gel electrodes
- Conductive sheeting
- Cosmetic masks & eye patches
- Bio-adhesives
- Tissue Separators
- Ointments & Medical Lotions

PROPERTIES

- Quick gelation time (under 1 minute)
- Quick cure time to reduce cold flow issues
- Cold or Hot gel processing
- Temperature stable for extreme shipping conditions
- Strong compression strength for rewind
- Can coat any substrate with ease
- Cold gel processing allows incorporation of active ingredients without affecting their biological stability.

AQUADAPT® FEATURES

- Assist autolytic debridement of necrotic tissue
- Flexible and non-adherent to wound to provide comfort
- Maintain a moist wound environment
- For use in wound area with low to medium levels of exudates
- Lack of adhesion to fibroblastic monolayer and hence, the reduction of scarring
- Strong compression strength to protect delicate wound from pressure.
- Peels away without leaving residue or trauma to cell growth
- Promote skin drug uptake via intimate skin hydration
- High absorption rate for wound exudates
- Oxygen permeable
- Protects wound from passage of micro-organisms
- Naturally cooling effect on contact



Hydromer®

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We can help make your ideas become reality