

FACT SHEET

HYDRO HEAL

PRODUCT OVERVIEW

The PVA/gelatin hydrogel merges PVA's mechanical stability with gelatin's biocompatibility and cell-adhesive properties, creating a porous, hydrated matrix that supports cell attachment, migration, and nutrient diffusion. By promoting re-epithelialization and maintaining a moist wound environment, it accelerates tissue regeneration and enhances skin healing.

FEATURES AND KINETICS

- 5X faster wound healing within 24 h.
- Absorbs exudate, keeps balanced moisture
- Biocompatible and non-toxic for direct skin contact
- Increases transdermal delivery
- Enhanced dermal permeation

APPLICATIONS

- **Moist protective barrier:** Maintains hydration, reduces pain, and accelerates re-epithelialization.
- **Regenerative matrix:** Enhances fibroblast migration, angiogenesis, and extracellular matrix deposition for tissue repair.
- **Therapeutic platform:** Cross-linked structure allows controlled delivery of drugs and growth factors while serving as a biocompatible scaffold.

MECHANISM OF ACTION

1. **Enhanced Delivery:** Improves skin contact and permeability for sustained release of actives.
2. **Repair & Regeneration:** Boosts collagen, cell growth, and barrier recovery.
3. **Protective Action:** Anti-inflammatory, antioxidant, and carrier for therapeutics.

KEY INGREDIENTS

- PVA
- Gelatin

STORAGE CONDITIONS:

- Store at room temperature (20-25 °C) or refrigerated (2-8 °C); chemical crosslinking improves stability compared to physical gels.
- Keep in sterile, sealed packaging, away from light, heat, and contamination.
- Do not freeze, as extreme cold may cause microstructural changes.
- Shelf life Sealed, stored refrigerated (2-8 °C) from 9-12 months.