PHOENIX
WOUND MATRIX

by RENOVODERM





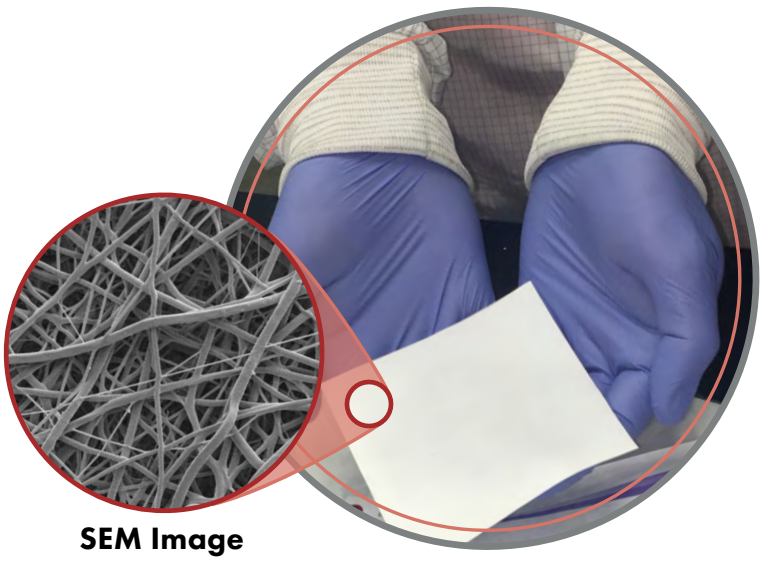


DESIGNED WITH PURPOSE TO HELP *YOU* RESTORE THE BODY'S NATURAL WOUND HEALING PROCESS

Phoenix Wound Matrix™ (PHOENIX) is a 3D electrospun matrix scientifically designed to structurally and mechanically mimic the skin's native ECM and inspire a pro-healing wound environment to restore the body's natural wound healing process and effectively achieve definitive closure of acute wounds, chronic wounds and burns.

The Phoenix Wound Matrix™ is designed to:

- Mimic native extra cellular matrix (ECM) with 3D morphology to facilitate cellular adhesion, infiltration and proliferation
- Lower pH to support a pro-healing wound environment[1, 2]
- Naturally biodegrade to α-hydroxy acids and fatty acid known to aid in the healing process
- Support lactate-mediated effects known to promote angiogenesis, oxygenation and accelerated wound healing[3]
- Help reestablish a balanced wound microbiome to restore the body's natural wound healing process
- Offer a first-line, cost-effective synthetic polymer solution to effectively achieve definitive wound closure



SEM Image

Phoenix Wound Matrix™

PRESSURE ULCER

70% reduction in wound size in 5 weeks





Day 0
1st Phoenix applied
Plan. area: 11.8 cm²

Day 7
2nd Phoenix applied
Plan. area: 11.3 cm²
4% decrease

Day 42
Plan. area: 3.6 cm²
70% decrease

Day 77
Wound Closure

Day 91
Remission Period

NECROTIZING FASCIITIS

77% reduction in wound size in 4 weeks





Day 0
1st Phoenix applied
Plan. area: 256.9 cm²
(anterior)

Day 11
2nd Phoenix applied
Plan. area: 115.7 cm²
55% decrease

Day 32
3rd Phoenix applied
Plan. area: 58.4 cm²
77% decrease

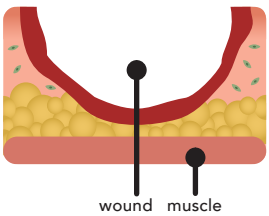
Day 60
Plan. area: 29.8 cm²
88% decrease

Day 67
Plan. area: 11.4 cm²
96% decrease

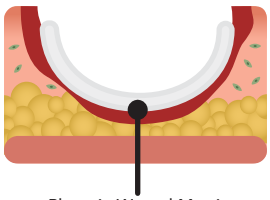
PHOENIX WOUND MATRIX

by RENOVODERM

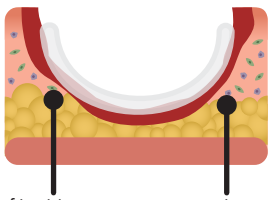
1 HEMOSTASIS



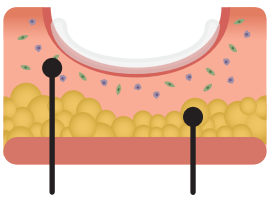
2 APPLICATION



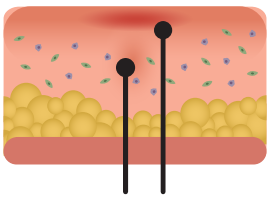
3 INFLAMMATION



4 PROLIFERATION



5 REMODELING



PHOENIX WOUND MATRIX™ – DESIGNED FOR RESULTS

- Non-woven construct comprised of 3D electrospun polymers
- Polymer selection/composition dictates product performance:
  - Determines flexibility
  - Defines the degradants
  - Determines degradation time
  - Defines the impact on the wound environment (pH and microbiome)
- Immediately contours to the wound bed, helping to create a protective barrier
- Mimics the structure of ECM
- Promotes cellular adhesion and infiltration

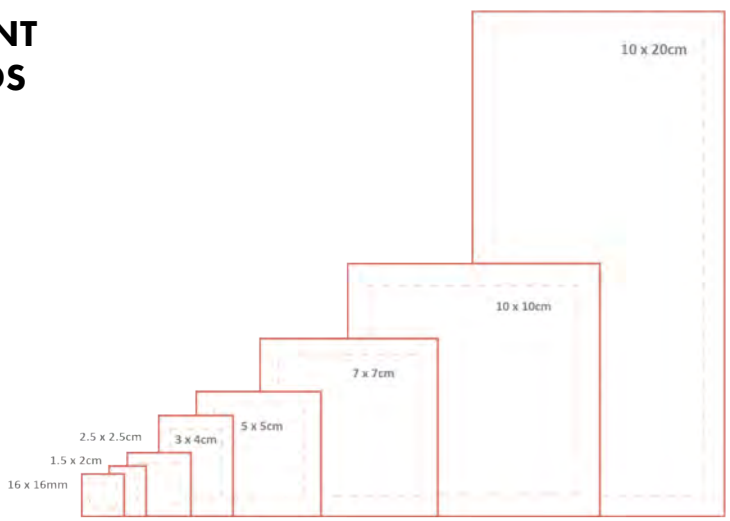
PHOENIX WOUND MATRIX™ – HANDLING CHARACTERISTICS AND USE

- Non-side specific, easy-to-handle and apply (see Application Guide at www.PhoenixMatrix.tech)
- Readily available off-the-shelf, easy to store – cool, dry place (30°C max)
- Anchor with physician's/QHP's preferred method of fixation: sutures, staples, surgical glue, or reinforced adhesive skin closures (e.g., Steri-Strip™)
- Bioresorbable matrix minimizes the need for painful dressing changes
- Readily available, off-the-shelf
- One-year shelf life

FDA 510K CLEARANCE FOR THE TREATMENT OF PARTIAL TO FULL-THICKNESS WOUNDS

- Indications:
  - pressure ulcers
  - venous ulcers, chronic vascular ulcers
  - diabetic ulcers
  - tunneled/undermined wounds
  - surgical wounds (e.g., donor sites/grafts, post-Mohs' surgery, post laser surgery, podiatric, wound dehiscence)
  - trauma wounds (e.g., abrasions, lacerations, second-degree burns, skin tears)
  - draining wounds

PHOENIX WOUND MATRIX™ – SIZES AND ORDERING INFORMATION



1. Nagoba BS, Suryawanshi NM, Wadher B, Selkar S. Acidic Environment and Wound Healing: A Review. Wounds. 2015;27(1):5-11.
2. Jones EM, Cochrane CA, Percival SL. The Effect of pH on the Extracellular Matrix and Biofilms. Advances in Wound Care. 2015;4(7):431-439. doi:10.1089/wound.2014.0538.
3. Porporato PE, Payen VL, Saedeleer CJD, et al. Lactate stimulates angiogenesis and accelerates the healing of superficial and ischemic wounds in mice. Angiogenesis. 2012;15(4):581-592. doi:10.1007/s10456-012-9282-0.

*Advanced wound care device, also known as cellular and/or tissue-based product (CTP) or skin substitute.

† All claims supported by human use studies, Good Lab Practice (GLP), porcine animal study and veterinary case studies