

A viable
alternative to
Bovine Collagen

NeüSkin™ -F

Sterile Collagen Sheets (fish origin)

The Golden Standard for Burns & Wounds

Introduction

Surgeons who treat burns and trauma etc., face a real challenge in closing the raw areas due to non-availability of adequate donor areas. It is for this reason biological skin substitutes have been evolved, which come very handy for the surgeons to manage the raw areas efficiently and to reduce the mortality and morbidity associated with burns and wounds.

Among the biological skin substitutes, Collagen dressings have been widely established as an effective dressings for burns and wounds because of its easy commercial availability in sterile usage conditions in convenient sizes and a reasonably long shelf life under normal storage conditions.

Collagen

Collagen is an extra cellular matrix protein playing a major role in connective tissue. It is the most abundant protein in humans and performs multiple functions. In fish, the largest concentration of collagen is found in the skeleton, fins, skin and air bladder. Collagen as a biomaterial and its role in wound management is a well-documented subject.

Collagen encourages wound healing through the deposition and organization of freshly formed fibers and granulation tissues in the wound bed and thus creating a very conducive environment to wound healing.

Role of collagen in wound healing

- ▶ Stops Bleeding (Hovig et al., 1968)
- ▶ Helps in Wound Debridement by attracting Monocytes (Postlewaithe and Kang, 1976.
- ▶ Provides a Matrix for Tissue and Vascular Growth (Kleinman et al, 1981a)
- ▶ Attracts Fibroblasts and helps in Directed Migration of cells (Dunn and Ebendal, 1978)
- ▶ Binds with Fibronectin, which promotes cell binding (Kleinman et al., 1981b)
- ▶ Supports growth (Marykwas et al., 1989), differentiation and migration (Emerman and Pitelko, 1977) of Keratinocytes
- ▶ Helps in deposition of Oriented and Organized Fibres (Doillion et al, 1984), which increase the integrity of the Tissue.

As a skin substitute, Collagen dressings perform the following functions.

1. Protecting the wounds from life threatening infections
2. Preventing fluid losses
3. Preserving local heat, essentially required for wound healing
4. Providing immediate pain relief

Description

NeüSkin-F is primarily a Type 1 collagen derived from fish sources available in the form of porous sheets in different convenient dimensions. It is Gamma Sterilized and supplied in convenient packing.

Salient Features

- Possessing good absorbing characteristics.
- Derived from fish sources - No threat of BSE/TSE.
- Biocompatible as per EN ISO 10993 standards.
- Non-toxic, non-allergenic, non-immunogenic & non-pyrogenic.
- Haemostatic
- Ease of application and removal
- Cost effective

Indications

- ✓ 2nd degree non-infected Burns
- ✓ 3rd degree Burns-as a temporary cover after escharectomy/tangential excision
- ✓ Skin donor sites
- ✓ Traumatic loss of skin cover
- ✓ Chronic skin ulcers
- ✓ Shallow wounds
- ✓ Dermabrasion

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NeüSkin™ -F

Application & User Guide

- Denuded areas should be thoroughly cleaned for external contamination.
- Infected wound should be thoroughly debrided.
- Select the right dimension of **NeüSkin-F** for application.
- Apply **NeüSkin-F** firmly on the raw area.
- **NeüSkin-F** adheres to the raw surface well.
- To secure **NeüSkin-F** on the wound bed, a light secondary dressing can be applied using a thin non-adherent padding or cotton gauze.
- **NeüSkin-F** peels off as the wound heals and epithelialization occurs.
- **NeüSkin-F** promotes healthy granulation in deep wounds (e.g. 3rd degree burns) for early grafting.
- Repeat dressing not required unless **NeüSkin-F** is rejected due to underlying pus or complication. For Chronic skin ulcers - 2 to 3 applications of **NeüSkin-F** in the interval of about 24 to 48 hours after a thorough cleansing each time, enhances healing.
- To remove adhered **NeüSkin-F** from the wound surface, apply saline moist pad over the sheet for few minutes for easy removal without damage to the tissues.

Precautions & warnings

- In case of infections, control the infection with systemic antibiotics and resume the application.
- Avoid in patients hypersensitive to Collagen.
- If the package is damaged or wet, sterility is not assured and the content should not be used.
- Discard the damaged/used portions.
- In case of irritation, remove and discontinue **NeüSkin-F**.
- Keep out of reach of children.
- **NeüSkin-F** is a sterile product, which should not be resterilized

Storage

NeüSkin-F can be stored in a dry place at or below 25°C with a shelf life of 3 years from the date of Manufacture and the expiry date is printed on the packaging. Do not use the product after the expiry date.

Availability

5 x 5 cm, 5 x 10 cm
7.5 x 10 cm, 10 x 10 cm
10 x 20 cm, 2" x 3"
3" x 4", 8" x 14"

MADE IN INDIA

For further details please contact:

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We create and surpass our own standards