

Synthetic skin replacement for temporary wound dressing.



EpiGARD®

EpiGARD cleans the wound and simultaneously maintains the moist environment which optimally conditions the wound for subsequent skin transplants.

EpiGARD is made from a non-textile, double-ply synthetic material and does not contain any additives. The top surface consists of a thin, microporous film. It is permeable to air and steam. This prevents the build-up of secretions, while protecting the wound from external bacterial burdens or fluids.

The underside forms an open matrix made of pliable, soft polyurethane. The wound exudate adheres to the fine porous structure and is removed together with the necrotic tissue when the bandage is changed. Fibroblasts and vessels begin growing in the wound area and the open polyurethane foam during the mechanical wound cleansing phase. In general, the wound is soon conditioned for the subsequent transplantation, provided EpiGARD is changed daily.

MATERIAL

EpiGARD's unique feature is the twoply material, which was developed by imitating the microanatomy of the human skin.

The thin top surface made of Teflon (polytetrafluorethylene) is permeable to air, but prevents bacteria from penetrating the wound and secretions from seeping through.

The underside forms an open matrix of soft, pliable polyurethane.

The side that faces the wound ensures rapid cleansing and good preparation of the wound surfaces. EpiGARD is sterile and disposable.

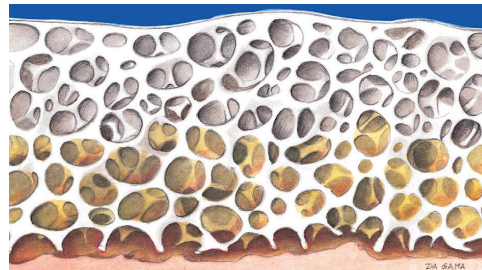


Figure 1: The wound exudate adheres to the cavities in the polyurethane structure.

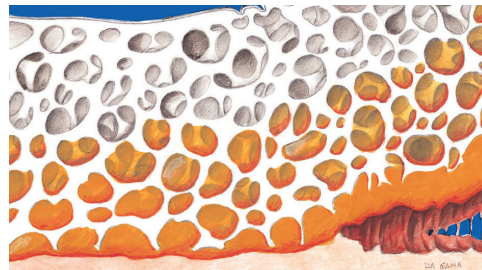


Figure 2: Necrotic tissue and wound exudate can be removed when the bandage is changed.

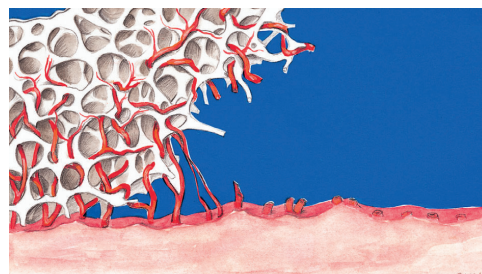


Figure 3: After the wound cleansing phase, fibroblasts and blood vessels begin to grow, which encourages a consistent and well vascularised granulation of the wound bed.

MECHANISM OF ACTION

EpiGARD sticks rapidly and effectively through thrombogenic adhesion and coagulation of the exudate on the wound bed. This rids the wound of necrotic tissue and exudate when the bandage is changed for the first time. During this wound cleansing phase, fibroblasts and vessels start growing in the wound area and the open-pored polyurethane foam.

After a few days a consistent, well vascularised wound bed is achieved, which can be covered with a secondary dressing.

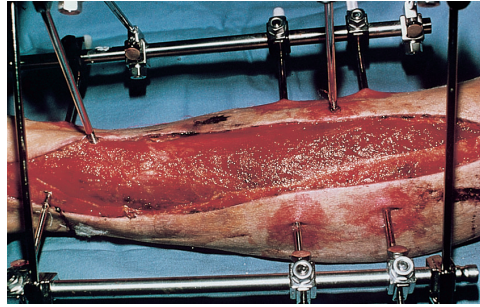


Figure 4: Thorough wound debridement to gain an overall impression of the condition of the wound.

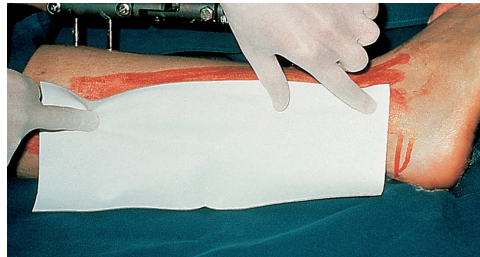


Figure 5: Precise adjustment of the skin replacement. Accurate cutting to size around the wound contour.



Figure 6: A lightly compressed dressing. Regular change of EpiGARD after 24 to 48 hours; examination of the wound, sterile dressing.

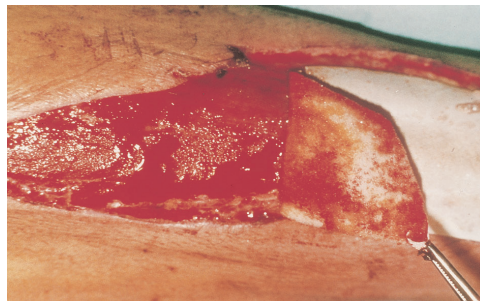


Figure 7: Repeated application of EpiGARD until a granulation bed that is ready for transplantation is achieved.



Figure 8: Definitive wound occlusion by means of a mesh graft or delayed primary suture after 3 to 7 days.

APPLICATION

EpiGARD is suitable for treating open wounds and for preparing a secondary wound occlusion such as Superficial defect wounds, Wounds after surgical necrosis removal with burns, Operation wounds and Wounds at removal sites for skin transplants.

EpiGARD is to be regularly examined and with fluid accumulation or irritation of the wound edges it is to be replaced. In general daily renewal of EpiGARD is recommended.

Do not use EpiGARD on wounds with pocket formation, wound infections, severe wound secretion, bleeding tendency.

Do not use EpiGARD with creams or ointments.

The films (from 40 - 540 cm²) are based on the many years of experience gained in this area and are designed to generate a minimal amount of “waste”.

EpiGARD	8 x 5	Pack Of 10	WV3200	PZN 02452077
EpiGARD	8 x 10	Pack Of 10	WV3201	PZN 02251048
EpiGARD	8 x 23	Pack Of 10	WV3202	PZN 02251060
EpiGARD	12 x 30	Pack Of 10	WV3203	PZN 02251083
EpiGARD	12 x 45	Pack Of 10	WV3204	PZN 02251114

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BetaBASE bioresorbable bone replacement
 BioBASE bioresorbable bone replacement
 PolyPIN bioresorbable bone pin

Dental Surgery:

BetaBASE MP bioresorbable bone replacement
 BioBASE AP bioresorbable bone replacement
 LeadFIX bioresorbable membrane pin

Wound Care:

EpiGARD synthetic skin replacement

PRODUCTION



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