

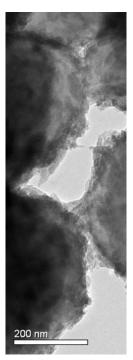


Veterinary Adhesives

Fast, Safe & Effective Bone Solution







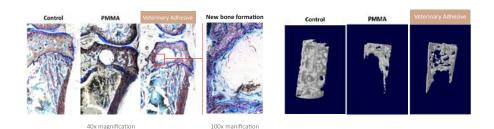
Bioactive Nano-composite For Bone Repair

- Hydroxyapatite-PMMA based copolymer adhesive
- Designed for fast, precise and no-mess application
- Rapid-setting for efficient surgery
- EO sterilized pack available to reduce risk of infection
- Animal safe ISO 10993 biocompatible
- Superior load bearing capacity for excellent surface and fixators adherence

Clinically Proven

Promote bone healing with instant support

Our hydroxyapatite-PMMA based Veterinary Adhesives mimic the chemical composition of natural bone to enhance healing and provide immediate stability.

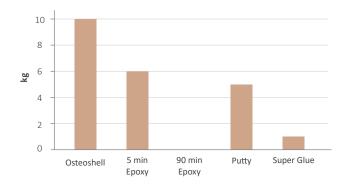


More bone formation compared to conventional PMMA

Histology analysis with Giemsa staining (left) and micro-CT analysis (right) of injured sites at left tibia subchondral bone in guinea pigs after 8 weeks.

Excellent adherence

Our Veterinary Adhesive series present comparable mechanical properties to natural bones, making them suitable for wide range of applications.



Following the application of adhesives on a sanded metal bar **after 30 minutes**, the adhesives were subjected to a load bearing test varying from 0 to 10 kg for 10 seconds.



Fracture fixation Plastronomoty External fixation

Osteoshell

Hard tissue adhesive for external fixation

Osteoshell is a biocompatible, 2-component adhesive ideal for repairing external fractures in aves and chelonian. Once cured, the material exhibits tenacious adhesion and tensile strength to hold the bone fragments in place.

- Superior load bearing capacity for excellent surface and fixators adherence
- Applicator nozzles and fixators are available for different indications
- Water resistance Aquatic species with minor to moderate injuries can be released back to water within 48 hours
- Leaves no adhesive residue after removal.



TECHNICAL DATA

Load bearing capacity 10 N

Radiopacity Nil

Working time 10 min (at 23°C)

Setting time 12.5 min (at 23°C)



Scan the QR code to watch demo video. https://bit.ly/3iXp09x





Simply mix the provided power and liquid component. Then apply the mixture to desired site and wait 5-10 minutes for hardening.

CLINICAL CASES

Case 1



Turtle with crack at carapace.



Osteoshell is applied directly over edges of

Case 2

Source: Ocean Park, Hong Kong





Turtle with a cracked carapace after a boat strike. Fragments are hold in placed with fixators and covered with Osteoshell.



VetHesive

Radiopaque bone adhesive for internal fixation

VetHesive is a bioactive and radiopaque bone adhesive for orthopedic surgery in small animals. VetHesive consists of a two component system, a powder and a liquid. Mixing the two components initially produces a liquid, which gradually turns into a paste, and ultimately solidifies into a hard, cement-like complex. The hardened complex allows stable fixation of bone defects.

- Visible on X-rays
- Available with or without gentamicin, which has broad spectrum covering gram-positive and gram-negative bacteria
- Injectable through applicator or needle I.D. down to 0.8 mm (18G)



Adhesive Products

Novus offers a variety of bone adhesives in order to satisfy the needs of every veterinary practitioner and indication.

| | External Use | | Internal Use | |
|----------------------------|-------------------------------------|---------------------|---------------------|---------------------|
| | Osteoshell | Osteoshell EFK | VetHesive | VetHesive G |
| Chemistry | Hydroxyapatite-PMMA based copolymer | | | |
| Working time | 10 minutes | | | |
| Setting time | 12.5 minutes | | | |
| Visible under X ray | | | ✓ | ✓ |
| Antibiotics | | | | ✓ |
| Recommended Indications | Hard tissue fixation | External fixation | Fracture fixation | Fracture fixation |
| Recommended Species | Turtles, birds | Dogs, cats, exotics | Dogs, cats, exotics | Dogs, cats, exotics |

Ordering Information





| OSTS | Osteoshell Hard tissue adhesive, Sterile (3 g / 6 ml) | | | |
|-------|---|--|--|--|
| OSTN | Osteoshell Hard tissue adhesive, Non-sterile (3 g / 6 ml) | | | |
| EFKS | Osteoshell External fixation kit, Sterile (3g / 6 ml) | | | |
| EFKN | Osteoshell External fixation kit, Non-sterile (3g / 6 ml) | | | |
| AZS16 | Applicator nozzle 1.6 mm (1/16"), Sterile, 1 pc | | | |
| AZS24 | Applicator nozzle 2.4 mm (3/32"), Sterile, 1 pc | | | |
| AZS32 | Applicator nozzle 3.2 mm (1/8"), Sterile, 1 pc | | | |
| AZS40 | Applicator nozzle 4.0 mm (5/32"), Sterile, 1 pc | | | |
| AZS48 | Applicator nozzle 4.8 mm (3/16"), Sterile, 1 pc | | | |
| AZS64 | Applicator nozzle 6.4 mm (1/4"), Sterile, 1 pc | | | |
| | | | | |
| VH | VetHesive Radiopaque bone adhesive, Sterile | | | |
| VHG | VetHesive G Radiopaque bone adhesive with | | | |
| | Gentamicin, Sterile | | | |

Why Novus

Novus is a Hong Kong-based biotechnology startup specialized in developing biomaterials for medical applications. Under Novus group, we offer a comprehensive solution for orthopaedics from bone adhesive to 3D-printed surgical products.







Contact us for a free product demonstration!



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