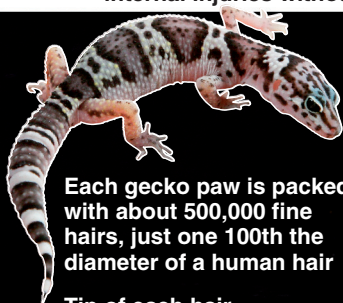


# Gecko-inspired dissolving bandage

The science that allows a gecko lizard to cling to a ceiling has been harnessed to create a waterproof adhesive bandage that can repair internal injuries without the need for sutures or staples



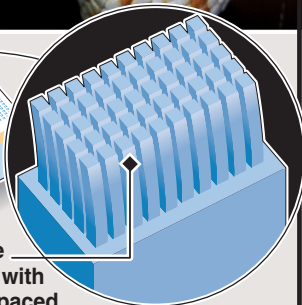
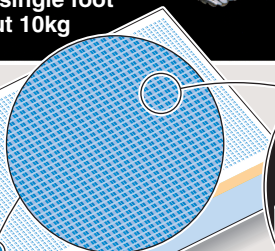
Each gecko paw is packed with about 500,000 fine hairs, just one 100th the diameter of a human hair

Tip of each hair has thousands of microscopic projections

Traces of water between projections create tiny “capillary forces” which add up to form strong adhesive force. Hairs on a single foot can support about 10kg



**Bandage:** Made of biodegradable rubber



Bandage covered with ridges spaced at similar scale to gecko projections

Sugar-based glue bonds to wet tissue surface

Ridges grip and interlock with underlying tissue