

Heraeus

PALAMED®

Bone cements for vacuum mixing
without prior cooling



PALAMED® and PALAMED® G
Medium-viscosity bone cements for the fixation
of hip and knee endoprotheses



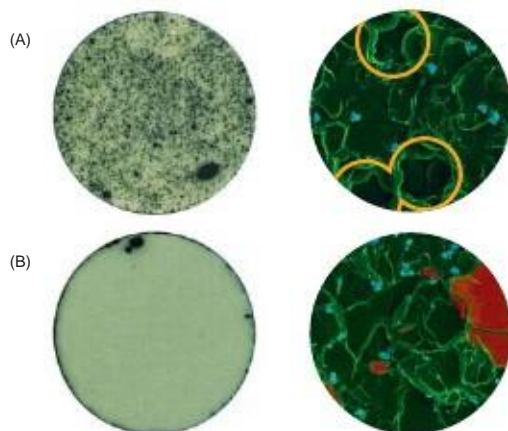
PALAMED® is suitable for vacuum mixing – without prior cooling.

Optimum processing properties without prior cooling

The lifetimes of endoprostheses are becoming longer and longer. This is particularly due to the introduction of top-quality bone cements and state-of-the-art vacuum-mixing systems. To ensure optimum processing properties and homogeneous cement mixing when vacuum-mixing conventional bone cements the cements should be cooled beforehand. PALAMED® is a medium-viscosity bone cement which can be mixed in vacuum-mixing systems such as PALAMIX® without prior cooling.

Much better cement quality due to mixing in a vacuum

In state-of-the-art cementing technique, the mixing of bone cement in a vacuum constitutes a reliable method of obtaining a homogeneous cement with optimum consistency and virtually no air inclusions. That also considerably reduces the risk of cracks forming when the bone cement has set.



(A) Hand-mixed cement shows air inclusions
(B) Cement mixed in a vacuum without air inclusions



Mixing without prior cooling

Optimised mixing results are achieved in a vacuum after only 30 seconds: a homogeneous cement with excellent consistency and virtually no air inclusions

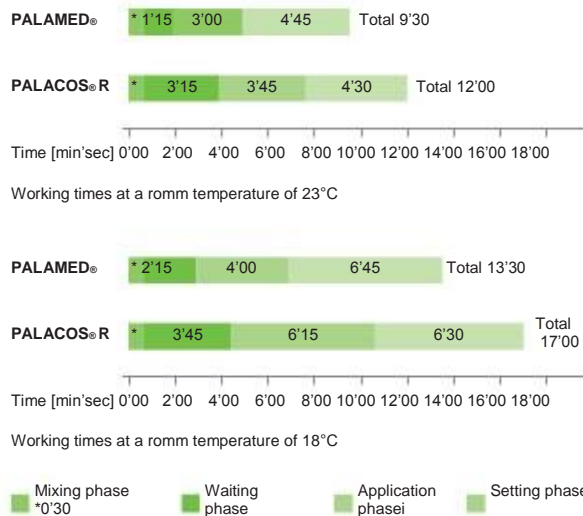


Short waiting time

After only a short waiting phase PALAMED® is ready for application and can be used quickly.

Comparison of the working time of cooled PALACOS® R and uncooled PALAMED®

Very different working times of cooled PALACOS® R (component temperature 4 – 7°C) compared to PALAMED® (component at room temperature) where room temperature was the same in each case.



Note: working times depend not only on room temperature but also on component temperature

PALAMED® G – with added active ingredient to protect against infections.

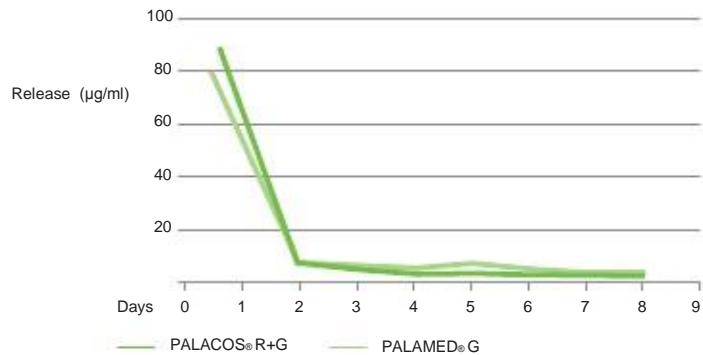
Antibiotics in bone cement

Adding antibiotics to bone cement – gentamicin in this case – allows a local, very high concentration of an active ingredient in the implantation region and can in this way prevent infections. This also enhances the service life of the prosthesis..

Gentamicin is proven in use

PALAMED® with added gentamicin combines the uncomplicated, time-saving use of cement with the proven local antibiosis of an antibiotic. Gentamicin features optimum kinetics for release from the cement matrix of PALAMED® G and has a broad spectrum of action..

Gentamicin release from PALACOS® R+G and PALAMED® G



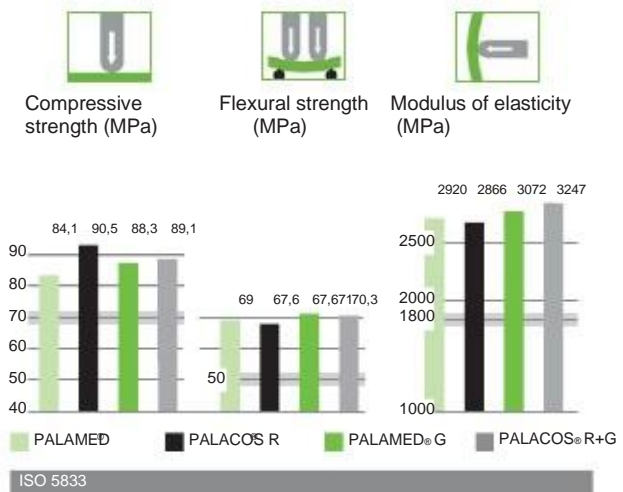
PALAMED® G with gentamicin

- High gentamicin release during the first few days after implantation and after that a constant level of active ingredient for several days
- Gentamicin's broad spectrum of action
- Effective protection against infections
- Can be mixed in standard vacuum-mixing systems without cooling
- Shorter waiting phase and optimised working time
- Same top-quality raw materials as for the proven PALACOS® R, which has been clinically tested on many occasions

The results are convincing

PALAMED® shows very good mechanical properties and excellent long-term stability.

Comparison of the mechanical properties of PALAMED® and PALACOS®



PALAMED®

Medium-viscosity bone cements for the fixation of hip and knee endoprotheses:
PALAMED® and PALAMED® G



Product	Description	Quantity / package	Art. No:
PALAMED®	Medium-viscosity bone cement for the fixation of hip and knee that does not require pre-cooling	1x40	66017786
		2x40	66017784
PALAMED® G	Medium-viscosity bone cement with gentamicin for the fixation of hip and knee that does not require pre-cooling	1x20	66017783
		2x20	66017782
		1x40	66017780
		2x40	66017779
		1x60	66017781

Simply order PALAMED® from Heraeus.

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