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BONE CEMENT & REGENERATIVE

SkyBoneCement
SkyPRP.

Radiopaque PMMA bone cement in three viscosities, with and without antibiotic. And a third-generation platelet-rich plasma platform.

SKYPUREBOND SKYCUREBOND SKYPRP

EDITION 2026 • REV 2.0
PENDIK • İSTANBUL • TÜRKIYE

SkyBoneCement

Polymethyl methacrylate (PMMA) based bone cement — a widely used biomaterial due to its ease of use in clinical practice and its long survival rate, especially with prosthetics.

WHAT IT IS

Bone cements have been used successfully to anchor artificial joints for more than half a century. The bone cement fills the free space between the prosthesis and the bone and plays the important role of an elastic zone. SkyBoneCement is a radiopaque PMMA bone cement with different viscosity variants — high, medium and low.

The product has two main components: liquid monomer and powdered polymer. The liquid part consists of methyl methacrylate, dimethyl-para-toluidine and hydroquinone as activators. The powder part consists of PMMA containing dibenzoyl peroxide, barium sulphate radiopacifier and gentamicin as an antibiotic.

SKYPUREBOND

Standard bone cement — without antibiotic.
Vertebroplasty • Cranioplasty • Kyphoplasty • Orthopedic

SKYCUREBOND

Antibiotic bone cement — with gentamicin sulphate.
Supports infection control during arthroplasty and cranioplasty.

PRODUCT PROPERTIES

- Easy to use
- Biocompatible
- High radio-opacity
- Appropriate working time

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SKYBONECEMENT

Indications

Radiopaque bone cement is indicated for osteoarthritis, rheumatoid arthritis, traumatic arthritis, avascular necrosis, severe joint breakdown as a result of sickle cell anemia, collagen disease, trauma or other conditions, and orthopedic musculoskeletal surgery of the prosthesis for revision of past arthroplasty procedures.

It is indicated for fixation to living bone in procedures. Cement is also a more traditional method of preventing loss of bone material or recalcitrance of fracture. It is also indicated for fixing pathological fractures where other procedures are rendered ineffective.

INDICATION SUMMARY

- Osteoarthritis • rheumatoid arthritis
- Traumatic arthritis
- Avascular necrosis
- Sickle cell anemia joint breakdown
- Collagen disease • trauma
- Revision of past arthroplasty
- Fixation to living bone
- Pathological fracture fixation

COMPOSITION — LIQUID COMPONENT

ROLE	SUBSTANCE
Monomer	Methyl methacrylate (MMA)
Activator	N,N-dimethyl-para-toluidine
Stability provider	Hydroquinone
Colorant	—

COMPOSITION — POWDER COMPONENT

ROLE	SUBSTANCE
Polymer	PMMA
Starter	Benzoyl peroxide
Radio-pacifier	Barium sulphate
Antibiotic	Gentamicin sulphate SKYCUREBOND ONLY

SKYPUREBOND

STANDARD — WITHOUT ANTIBIOTIC

High viscosity

VERTEBROPLASTY

Indicated for fixation of pathological fractures of the vertebral body — vertebroplasty and kyphoplasty.

MODEL CODE	SIZE
SH20	20 gr
SH40	40 gr
SH60	60 gr

Medium viscosity

ARTHROPLASTY

Two-component cement for anchoring artificial joints. Radiopaque, with appropriate working time for prosthetic fixation.

MODEL CODE	SIZE
SM20	20 gr
SM40	40 gr
SM60	60 gr

Low viscosity

CRANIOPLASTY

PMMA is the most widely used biomaterial for cranioplasty. Liquid monomer and powdered polymer, mixed at the point of use.

MODEL CODE	SIZE
SL20	20 gr
SL40	40 gr
SL60	60 gr

SKYCUREBOND

ANTIBIOTIC — GENTAMICIN SULPHATE

MODEL CODE	SIZE
SAM20	20 gr
SAM40	40 gr
SAM60	60 gr

LIQUID

- Methyl methacrylate (MMA)
- Dimethyl-p-toluidine
- Hydroquinone

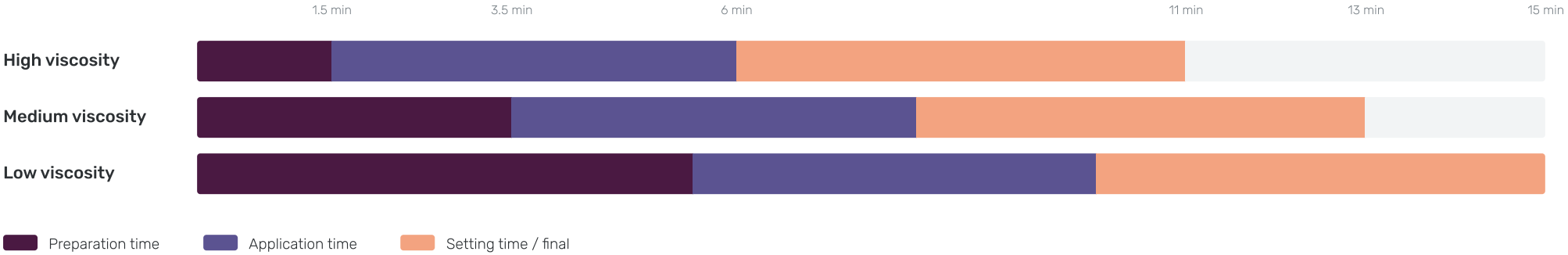
POWDER

- PMMA
- Barium sulphate (radiopacifier)
- Benzoyl peroxide
- **Gentamicin sulphate (antibiotic)**

Model code system. SkyPureBond: **S** Sky • **H / M / L** viscosity • **20 / 40 / 60** grams. SkyCureBond uses its own antibiotic series: **SAM20 • SAM40 • SAM60**.

SETTING TIME — THREE VISCOSITIES

Preparation, application and setting times differ by viscosity. Higher viscosity sets sooner; lower viscosity gives a longer working window before final set.



VISCOSITY	PREPARATION ENDS	APPLICATION ENDS	FINAL SET
High	1.5 min	6 min	11 min
Medium	3.5 min	—	13 min
Low	—	—	15 min

The chart reproduces the proportions of the product catalogue. Only the values **marked** in the original are stated in the table; intermediate boundaries for Medium and Low viscosity are not marked in the source chart and are shown as "—" pending confirmation from production.

SkyPRP Injector

A third-generation PRP extraction platform, manufactured to high-quality standards and certified as a Class 2b medical device.

HOW THE SYSTEM WORKS

Closed-system safety

Since it is a closed system, the risk of contamination is minimized. The needle-free design ensures PRP–PPP isolation without opening the circuit.

Efficient blood separation

After being drawn into an **anticoagulant syringe**, blood collection is performed, and maximum separation is achieved by centrifugation at **3,500 rpm (approximately 1,600 G) for 5 minutes**.

Precise PRP extraction

The obtained platelet-rich plasma cells are prepared for use with the help of a specially designed **narrow-neck connector**, allowing full extraction of the Buffy Coat layer.

PROCEDURE SUMMARY

STEP	PARAMETER
Blood collection	Drawn into anticoagulant syringe
Centrifugation	3,500 rpm ≈ 1,600 G • 5 minutes
Ready to use	PRP ready in approximately 10 minutes
Extraction	Narrow-neck connector • full Buffy Coat
Certification	Class 2b medical device
Compatibility	Innovative design compatible with all centrifuges

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SINGLE-SYRINGE KIT

SkyPRP Uni

The narrow-neck design allows full extraction of the Buffy Coat, enabling the practitioner to obtain visibly rich plasma within approximately 10 minutes.

Thanks to its needle-free design, it ensures PRP–PPP isolation in a closed system, eliminating the risk of contamination.

The healing effects of platelet-rich plasma are due to the growth factors released by platelets, which stimulate the healing response. SkyPRP's mission is to release these growth factors in the fastest and safest way possible.

FEATURES

- Complete extraction of the Buffy Coat layer
- Zero contamination — closed system
- Class 2b certification

DUAL-SYRINGE SYSTEM

SkyPRP Duo

An affordable system developed for therapeutic applications where a higher concentration of growth factors is required. Preferred in cases where a single syringe is insufficient.

KEY FEATURES

- High platelet concentration
- Complete extraction of the Buffy Coat layer
- Ready-to-use PRP in approximately 10 minutes
- Centrifugation at 3,500 rpm ≈ 1,600 G for 5 minutes
- Zero contamination — closed system
- Class 2b certification
- Innovative design compatible with all centrifuges

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Surgical precision, effortless performance.

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