

ISO
13485



Human
Health
Technologies

Bone
Cement



BONE CEMENT TYPES



- Bone Cement comes in 3 types: Genta, Standard, and ZV.
- Each product package contains a bowl and spatula. This bowl and spatula are made from acid-resistant raw materials.

STANDART BONE CEMENT 40 gr



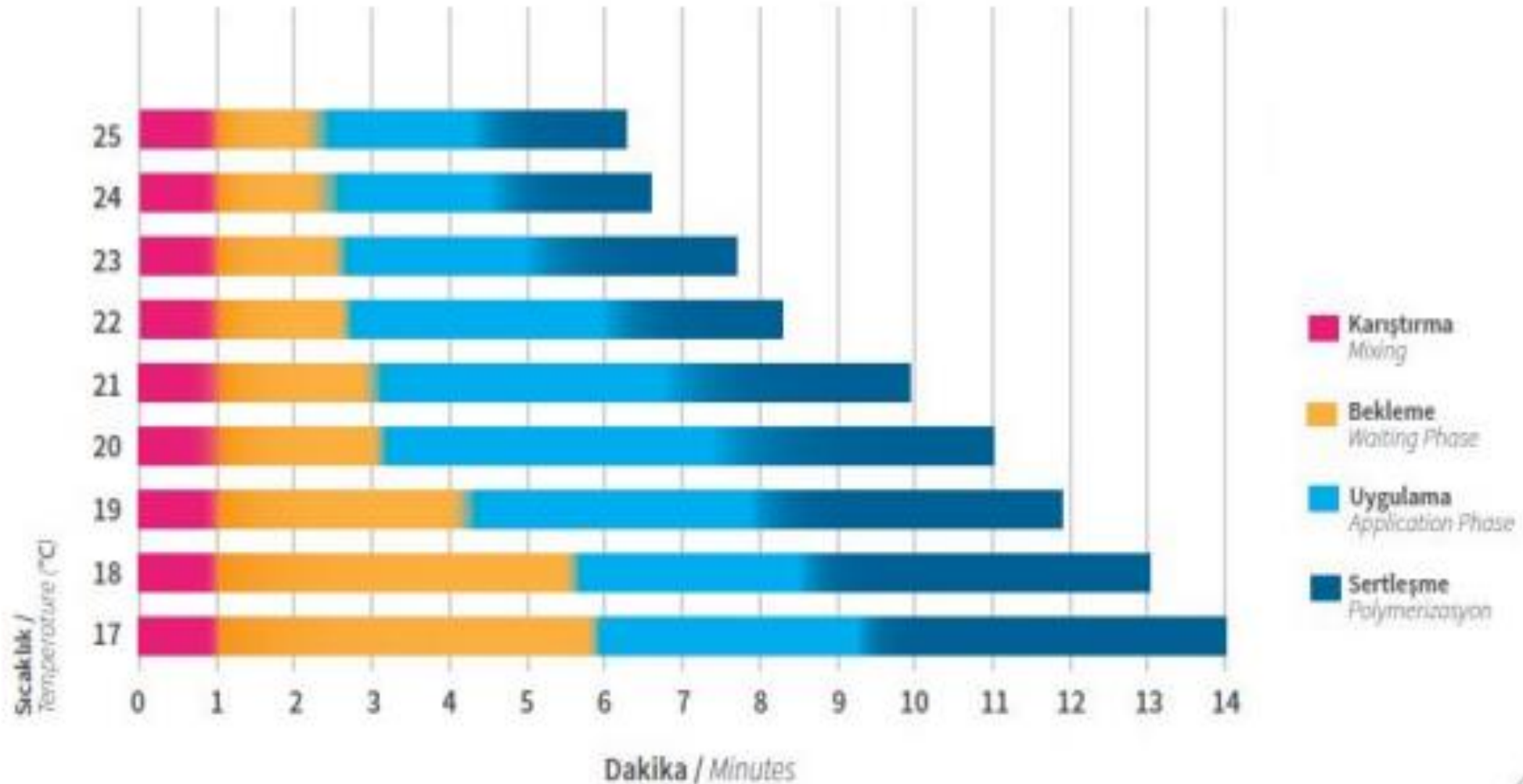
- Standart Bone Cement It is a medium viscosity bone cement used in hip, knee, and shoulder implant fixation. In orthopedics and other surgical specialties, its application is indicated when prosthetic elements need to be fixed with sterile polymerizable material. Manufactured and tested according to ISO 5833 acrylic resin cement standards, Standart bone cement has demonstrated superior quality and mechanical test performance in all formulations. Standart bone cement with outstanding adhesion and mechanical properties provides high visibility under X-ray with Ph Eur BP USP synthetic Barium Sulphate as an opacifier.
- In terms of application, our modern systems are produced compatible with syringe/cement guns and manual applications. Standart Bone Cement is contained in a double layer Tyvek envelope whose powder portion creates a high sealing and protective barrier. In this way, the cement powder can be poured into the Preparation container easily and cleanly. In addition, the product is protected against external factors with blister packaging and is safely protected until the end-user, the surgical personnel. It is a formulation with sufficient working time and a suitable polymerization temperature. All of our cement meets the International ISO 5833 Standard for PMMA bone cement.

GENTA BONE CEMENT 41 gr



- Genta Bone cement PMMA bone cement is available with antibiotics (Gentamicin) and in two different viscosities to suit the surgeon's preferences. All of our cement meet or even exceed the International ISO 5833 Standard for PMMA bone cement. Two different viscosities for various applications Short residence time and efficient application time Stable and easy-to-use packaging: liquid in one ampoule and one Tyvek sachet powder Manufactured in our accredited facilities meeting leading European and international standards. Genta Bone cement Performance Viscosity is an important use characteristic for surgeons. We provide both standard and low viscosity bone cement, offered with and without antibiotics, to meet the needs and preferences of different surgeons. Genta Bone cement standard viscosity bone cement, which is initially more fluid.
- All cement conforms to the International ISO 5833 PMMA standard, which defines the physical, mechanical, packaging, and labeling requirements for bone cement. Low curing temperature To prevent necrosis of the surrounding tissue, International Standard ISO 5833 (2002) sets a limit of 90 ° C for the curing temperature of bone cement. The highest exothermic temperature of the Genta Cement variants is well below this limit. Antibiotic bone cements The most commonly used bone cement contains Gentamicin, an antibiotic that covers about 62% of all gram-negative bacteria.
- The addition of gentamicin to bone cement prevents bacteria from adhering to the cement surface and surrounding tissue, reducing the risk of bacterial growth and infection. Genta Cement, We limit the amount of antibiotics to 2.44% of the total powder volume to provide effective antibiotics without compromising the mechanical strength of the product. Genta Cement offers a high antibiotic release that steadily decreases over time. While burst release initially reduces the risk of resistant bacterial strains, extended-release helps maintain the physiologically relevant local antibiotic concentration required for adequate prophylaxis.

GENTA HEAT TABLE



ZV BONE CEMENT 20 gr



ZV Bone Cement is specially designed for use in low viscosity acrylic bone cement, vertebroplasty and Kyphoplasty. It has sufficient working time and suitable polymerization temperature. It provides high visibility under X-ray with Ph Eur BP USP synthetic Barium Sulphate as opacifier.

This product can be applied in osteoporotic vertebral fractures in patients with spinal angiography. It is indicated for strengthening and stabilization of a fracture, collapsed or compressed spine body caused by pathological conditions such as osteoporotic or tumors. It also has a low reaction rate to minimize exothermic damage to bones or other tissues. It has high visibility with its high radiopaque content.

While ZV Bone Cement Vertebroplasty bone cement is used, each product package contains a bowl and spatula. This bowl and spatula are made from acid-resistant raw materials. The pictures below show the clinical performance of ZV Bone Cement

The picture below is a radiographic view showing the clinical performance of ZV bone cement.

