

Product Specification

01/10/2015

Product name	HeyTec Cem SE	
Type of material	Self adhesive dual cure luting cement for permanent cementations, based on methacrylate resin with fillers	
Recommended medical device classification	Class IIa (93/42 EEC)	
Relevant Standards	None	
	Parameter	Typical Values
Typical composition	Mixture of dimethacrylates, glass powder, fumed silica, phosphoric esters, catalysts, stabilizer, pigments	
	Total filler content (by weight)	50 %
	Total filler content (by volume)	45 %
	Specific gravity	1,7 g/cm ³
Working properties	Mixing time	n.a. (AUTOMIX)
	Working time (incl. mixing time; 23 °C; 74 °F)	> 1:30 min
	Recommended curing time (light cure)	20 sec
	Depth of light cure	≥1 mm* (A3 opaque, white opaque)
	Setting time (37 °C; 99 °F; without any light, air excluded)	≤4:00 min
Physical properties	Adhesive strength (dual cure)	
	to enamel and dentine	> 5 MPa
	to metal (precious and non-precious)	> 5 MPa
	to zirconia and silicate ceramic	> 5 MPa
	Compressive strength (dual cure)	150 MPa
	Fluoride release	substantial
	Film thickness	< 20 µm
	Colour stability	very good
Radiopacity	approx. 150 % Al	
Storage	10-25°C	
Shelf life	1,5 years (stored in the original seal-pack)	

* the measured value (height of the cylinder of cured material) divided by two, according to ISO 4049