

TECHNICAL DATA SHEET

Product:	Alpha-Dent® Polycarboxylate Cement	
Product Description:	Alpha-Dent® Polycarboxylate Cement is specially formulated for superior strength, resistance to dissolution, and oral retention. It is impervious to oral fluids, and thus permanent under oral conditions.	
Indications for Use:	Cementation of inlays, onlays, crowns, bridges, and fixed orthodontic bands. Cavity lining under all restorative materials or following root canal treatment. Temporary fillings in deciduous teeth.	
Appearance:	Fine grit uniform pale yellow powder. Liquid is a clear colorless to pale yellow solution.	
Curing Mechanism:	Self cured by mixing powder and liquid together.	
Shelf-Life:	36 months	
Main Composition (%w/w):		
	Powder:	
	Zinc Oxide	> 90
	Magnesium Oxide	< 10
	Liquid:	
	Polyacrylic Acid Solution	100
Physical /Mechanical Properties:		
	Film Thickness, μm	< 25
	Net Setting Time @ 37 °C, minutes	2.5 – 3.0
	Compressive Strength, MPa, minimum	70
	Acid-soluble Arsenic, mg/kg	< 2
	Acid-soluble Lead, mg/kg	< 100