

# TECHNICAL DATA SHEET

<b>Product:</b>	Alpha-Dent® Polycarboxylate Cement	
<b>Product Description:</b>	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.	
<b>Indications for Use:</b>	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.	
<b>Appearance:</b>	Fine grit uniform pale yellow powder. Liquid is a clear colorless to pale yellow solution.	
<b>Curing Mechanism:</b>	Self cured by mixing powder and liquid together.	
<b>Shelf-Life:</b>	36 months	
<b>Main Composition (%w/w):</b>		
	<b>Powder:</b>	
	Zinc Oxide	> 90
	Magnesium Oxide	< 10
	<b>Liquid:</b>	
	Polyacrylic Acid Solution	100
<b>Physical /Mechanical Properties:</b>		
	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