



Vasavibala Resins (P) Ltd.

POLYMER DIVISION
Manufacturers of Unsaturated Polyester Resins

TECHNICAL BROCHURE – UNSATURATED POLYESTER RESINS

GRADE : VBR 2300CC – Pre Accelerated Ortho CLEAR CASTING RESIN

VBR 2300CC is a pre accelerated medium reactive and medium viscous orthophthalic based resin suitable for casting applications. It is suggested for the fabrication of cultured marble and cultured onyx. It is versatile enough to make small castings as well as to large vanities. It's low exotherm and controlled shrinkage allows the production of large parts without any crack. It permits high filler loading, excellent filler suspension and fast production cycles.

PROPERTIES OF LIQUID RESIN		
Appearance	:	Pale pinkish clear Liquid
Colour (on Gardner Scale, max)	:	2
Viscosity at 25° C, cps	:	500 – 600
Specific gravity at 25° C gm/ml	:	1.13 – 1.15
Acid value, mg KOH/gm	:	23 – 27
Volatile content, %	:	32 – 36
Shelf life at 25° C, months	:	3
Gel time at 25° C, minutes*	:	10 - 20
Peak exotherm, °C**	:	140 – 150

* Mix VBR 2300CC Resin - 100 gm, 1.5 ml, VBR 1204 - 2 ml

** Under insulated Condition for 50 gm mixture.

PROPERTIES OF UNREINFORCED CURED RESIN CASTING

The specimens are prepared by mixing 2.0% of VBR 1204 with 100 g of VBR 2300CC and casted in a closed cell of specified dimension. These castings are cured for 24 hrs at room temperature and post cured at 90°C for 4 hrs.



Vasavibala Resins (P) Ltd.

POLYMER DIVISION
Manufacturers of Unsaturated Polyester Resins

PROPERTIES OF RESIN CASTING

Barcol Hardness	:	35 – 45
Tensile Strength, N/mm ²	:	50 – 55
Flexural Strength, N/mm ²	:	80 – 85
Heat distortion temperature, °C	:	65 – 70
Water Absorption at 25°C over a period of 700 hrs, %	:	0.45
Elongation at break, %	:	2 – 3

THERMAL STABILITY

Castings of VBR 2300CC show good thermal shock resistance.

TEST METHODS

IS 6746 – 1994

APPLICATION

VBR 2300CC is specifically meant for the fabrication of both cultured marble and cultured onyx and is versatile enough to make small castings as well as vanities. This resin exhibits low exotherm with controlled shrinkage, which leads to the production of large parts without any crack. VBR 2300CC is suitable for both mechanical and hand mixing processes.

STORAGE

VBR 2300CC should be stored in closed containers inside covered area. The storage temperature not exceeding 25°C is preferable. At higher storage temperature, the shelf life decreases sharply. It should not be exposed to direct sunlight, heat radiation and moisture; these may cause premature gelation. VBR 2300CC is guaranteed for 3 months from the date of manufacture provided the storage conditions are strictly adhered to.

PACKING

35 Kg. HDPE carbuoys and 220 Kg. coated steel barrels.