



TECHNICAL BROCHURE – UNSATURATED POLYESTER RESINS

GRADE : VBR 2302 – Ortho Cultured Marble Resin

VBR 2302 is a low reactive moderately resilient orthophthalic resin with medium viscosity designed for the fabrication of cultured marble varying from small parts to large bathtubs. It has low exotherm and controlled shrinkage, which allow production of large parts in a safer way.

PROPERTIES OF LIQUID RESIN		
Appearance	:	Pale yellowish clear liquid
Viscosity at 25° C, cps Brookfield Viscometer LV DV II + Po Spindle 61, rpm 2	:	2600 – 2800
Density at 25° C gm/ml	:	1.15 – 1.17
Acid value, mg KOH/gm	:	25 – 30
Volatile content, %	:	24 – 30
Shelf life at 25° C, months	:	3
Gel time at 25° C, minutes*	:	20 – 30
Peak exotherm, °C**	:	130 – 140

* Mix VBR 2302 Resin - 100 gm, VBR 1201 – 1.5 ml, VBR 1204 - 1.5ml

** Under insulated Condition for 100 gm mixture.

VBR 1201 should never be independently mixed with VBR 1204, as this would cause explosion.

PROPERTIES OF UNREINFORCED CURED RESIN CASTING

The specimens are prepared by separately mixing 1.5% each of VBR 1201 and VBR 1204 with VBR 2302 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 – 40
Tensile Strength, N/mm ²	:	60 – 65
Flexural Strength, N/mm ²	:	110 – 115
Heat distortion temperature, °C	:	50 – 60
Water Absorption at 25°C over a period of 700 hrs, %	:	0.50 – 0.55
Elongation at break, %	:	2 – 3

VBR 2302 possess excellent air release properties.

Casting of VBR 2302 shows excellent impact strength, flexural strength and good toughness along with outstanding thermal shock resistance.

TEST METHODS

IS 6746 – 1994.

APPLICATION

VBR 2302 is for specifically selected for casting large cultured marble parts such as bathtubs and vanities.

STORAGE

VBR 2302 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 2302 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.