



ASTEROCHEM™

TECHNICAL DATA SHEET

ESTEROCHEM-979 UNSATURATED POLYESTER RESIN

Product Description

ESTEROCHEM-979 is non accelerated unsaturated polyester resin specially formulated for artificial marble applications using high end glycols. It provides superior UV resistance, excellent pigment dispersion, and strong filler adhesion. Ideal for producing high-gloss, durable solid surfaces and cultured marble products.

Applications

- Solid Surface Casting
- Cultured Marble
- Moulded Marble Components
- Hand Lay-Up (for decorative inlays)
- Marble Adhesives
- Filler-Rich Casting Applications

Technical Properties

Property	Value
Appearance	Colourless Clear viscous liquid
Styrene Content	32 – 35%
Acid Value	≤20 mg KOH/g
Solid Content	60 – 65%
Mass Density	1.12 – 1.19 g/cm ³
Viscosity @ 30°C	80 – 90 seconds
Gel Time @ 30°C	10 – 12 minutes
Peak Exothermic Temperature	165 – 170°C
Time to Peak Exotherm	13 – 20 minutes

Gel Time Calculation:

Promoter: Cobalt naphthenate 0.33%, Co content:6%; curing agent MEKP 1%, Effective oxygen content:10%;
[Gel time and Viscosity can be optimized as per customer requirement]

Storage Guidelines

ESTEROCHEM-979 should be stored in a cool, dark environment at or below 25°C.

Shelf Life

Under recommended storage conditions (≤25°C), the shelf life of the product is **three months**. Prolonged exposure to elevated temperatures will shorten shelf life.

Packaging

Supplied in **225 kg iron drums**.

The information provided herein is based on our current level of knowledge and experience. As resin performance can vary due to numerous factors beyond our control, we strongly recommend users conduct their own preliminary tests to ensure product suitability for specific applications. Should there be any significant variation in resin properties, please contact your supplier immediately.