

## ENCORE<sup>®</sup> 30 Unsaturated Polyester Resin

Version : April 2005

### APPEARANCE

Opaque pink-purple liquid resin

### MAIN RESIN CHARACTERISTICS

Orthophthalic unsaturated polyester  
Thixotropic – Preaccelerated  
Low reactivity  
Low styrene emission  
LLOYD's Register of Shipping approved  
Det Norske Veritas approved  
Water Byelaws Scheme approved ( in  
conjunction with suitable gel coat )

### MOULDING INFORMATION

Hand lay up  
Spray up

### MAIN APPLICATION

General moulding

### LIQUID RESIN PROPERTIES

( Typical values )

Specific gravity at 25°C:	1.09
Rotoinner viscosity at 25°C:	2.3 – 2.7 dPa.s
Volatile content:	42 – 46%
Reactivity at 20°C , 2% MEKP 50	
Gel time:	16 – 20 minutes

### CURED RESIN PROPERTIES

#### NON REINFORCED

( Typical values )

Tensile ISO 527	
- strength:	56 MPa
- modulus:	3800 MPa
- elongation at break:	2.6%
Flexural ISO 178	
- strength:	78 MPa
- modulus:	3900 MPa
HDT ISO 75-2 A:	62°C
Barcol Hardness:	40 – 45 ( Barcol 934-1 )

### SHELF LIFE

6 months

### GUIDELINES BEFORE USE

Materials should be conditioned to a reasonable temperature (15°C minimum) prior to use. Resin should be agitated before use.  
For further information please consult our Application Guide.

### SAFETY PRECAUTIONS FOR HANDLING AND STORAGE

**FOR FULL DETAILS PLEASE REFER TO SDS,**

Polyester resins contain styrene monomer, classified as **HARMFUL** by inhalation and **IRRITATING** to eyes and skin. With a flash point **below 32°C**, polyester resins are classified with the proper shipping name 'resin solution, flammable' as determined by ADR Marginal 2301 Item 54. The current UK EH40 styrene occupational exposure limit is a MEL of 100ppm (8 hr TWA). And there is an industry, voluntary code of practice to work below 50 ppm. The Environmental Protection Act (1990,1995) must also be complied with. Resins should be stored cool, away from direct sunlight in closed containers. When stored in bulk, adequate venting of tanks is recommended together with a storage temperature not exceeding 20°C.

The information contained herein is based upon our own research and is intended to assist customers in determining whether our products are suitable for their specific applications. The user is required to check the quality, safety and suitability of our product prior to use. Starting point formulations and suggestions for use are given as guidance only and are made without warranty. Nor should it be construed as permission, inducement or recommendation to practise any invention covered by patent without authority from the owner thereof.