

Matrix Standard Roofing Resin Technical Datasheet



DESCRIPTION SPECIFICATION

Unsaturated polyester resin in styrene monomer
Low Reactivity
Pre-Accelerated
Unpigmented
Low Styrene Emission

APPLICATION TYPICAL PROPERTIES

20°C, 2% MEKP(1)
Hand Laminating (Roofing) Target Gel Time - 20 minutes
Adjusted for seasonal variations in temperature
Shelf Life - 6 months

CHARACTERISTICS CATALYST

Good Interlaminar Adhesion - Medium/high activity MEKP catalyst
Good wet out
Good Air Release

USE AREAS

Roofing including areas subject to foot traffic

SPECIFICATION

Viscosity (Brookfield) at 25°C 500-1000cP
styrene monomer Monomer Content 39 - 44%
Orthophthalic Appearance: Blue/Green Thixotropic Liquid

MECHANICAL PROPERTIES

Tensile Strength 60-70MPa using 450g/m² CSM
Elongation to break 3.5-4.5% using 450g/m² CSM

HANDLING PRECAUTIONS AND STORAGE

Polyester resins which contain styrene monomer, an irritant liquid with a flash point below 32°C (90°F), are in general subject to the Highly Flammable Liquids and Liquid Petroleum Gases Regulations 1972. The resins should be stored cool, away from direct sunlight, in closed metal containers (such as the drums in which they are supplied) if maximum shelf life is to be maintained. The quantity of styrene vapour in the working atmosphere should not exceed the Threshold Limit value of 100ppm and when stored in bulk, adequate venting of large tanks is recommended together with a storage temperature not exceeding 0°C(68°F). It is preferable to wear gloves/goggles when handling polyester resin solutions to guard against any possible skin/eye irritation arising from the presence of styrene.