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AUSTRALIA
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Erabond MCU

SINGLE COMPONENT LAMINATING ADHESIVE

TECHNICAL DATASHEET

ERABOND MCU is a flexible polyurethane-laminating adhesive suitable for bonding polystyrene to steel, aluminum and other surfaces to create a structural sandwich panel.

The adhesive is solvent-free, 100% polyurethane that gives maximum adhesion without degrading the polystyrene. It is a single component moisture cure system, which means it reacts with atmospheric moisture for a complete cure. Please note that the adhesive will cure slightly faster or slower depending on levels of atmospheric moisture and temperature.

Product Specification

Specific Gravity at 25°C	1.1
Viscosity at 25°C (cps)	3500
Colour	Light Amber
Solids Content (%)	100
Tack Free Time (hrs)	3 (at 25°C, 50% RH, 2mm thick)
Initial Set Time (hrs)	16 (at 25°C, 50% RH, 2mm thick)
Full Strength (hrs)	48

Application Procedure

This product is designed for hand lamination using a brush or roll. Methylene chloride or other compatible solvents (up to 50%) may be added to reduce the viscosity so it can be spray applied or more easily brushed or roll applied.

To increase production the coated panels should be heated prior to assembly, using infra red, hot air or other suitable methods.

The assembled panels should be pressed to ensure good contact between all surfaces.

Coverage depends greatly on the surface texture (or porosity). Rough or highly porous surfaces will require more adhesive than smooth surfaces.



This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

Cleaning

Spray equipment, brushes and rollers can be cleaned with methylene chloride, MEK, acetone or other suitable solvents. Please note that spray equipment should be cleaned with a suitable solvent to prevent damage to rubber seals – please contact the machinery supplier or Era Polymers for any recommendations.

Storage

For maximum storage life of any part used containers, purge with dry nitrogen to prevent a skin forming due to reaction with atmospheric moisture.

Handling Precautions

Before handling these chemicals please consult the Material Safety Data Sheet for the component.

The product is an isocyanate and should be used in well-ventilated areas.

Contact with skin or eyes must be avoided and do not breathe in vapours. Safety goggles and protective gloves should be worn whenever handling the chemical.

In case of skin contact, immediately remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes.

Treat symptomatically, and seek medical specialist help if required.