

# PERMAROOF PU ADHESIVE

## One Component Moisture Curing Polyurethane Adhesive

### PERMAROOF PU ADHESIVE

is a one component Moisture Curing Polyurethane Adhesive designed for:

- ◆ Outstanding adhesion to many substrates
- ◆ Slow to medium speed roller coat or bead application
- ◆ Strong rigid bonds
- ◆ Resistance to high and low temperatures and moisture

### PERMAROOF PU ADHESIVE

may be used for bonding all types of plastic foams and other insulating materials to a wide variety of both flexible and rigid facing materials in the manufacture of roof structures, structural sandwich panels and insulated building boards and laminates. When bonding unprimed metals, please consult our Technical Department.

### TECHNICAL DATA:

**Appearance:** Medium viscosity Blue liquid.

**Specific Gravity:** 1.1

**Viscosity:** 8,000 mPas at 20°C

**Solids Content:** 85%

**Working Time:**

Approx. 15 mins.

**Total Cycle Time:**

Approx. 60 mins.

**Packaging:** 0.5kg, 10kg, 25kg polybottles, 25kg and 200kg tight head steel drums

**Shelf Life:** 6 months when stored in a dry environment between 5°C and 20°C in unopened containers. The product is not sensitive to freezing but low temperatures will produce an increase in viscosity which may make application difficult.

### APPLICATION:

**PERMAROOF PU ADHESIVE** should be applied at the rate of 75-100 gsm to just one side of each glue line. The adhesive is best applied by roller coater or bead application systems which should be totally enclosed to prevent ingress of moisture.

### CLEAN UP PROCEDURE:

In order to minimise the danger of the adhesive gelling resulting in line blockage, it is advisable to clean out the spray equipment thoroughly at the end of each shift. To facilitate this operation, equipment should be fitted with a dual input so that the system can be quickly switched over from adhesive to a suitable solvent (MEK is preferred but non-flammable mixtures may be used if essential).

### PRESSING:

Once the adhesive has been applied and the panel assembled, sufficient even pressure must be applied to keep the components in intimate contact during the cure cycle. The actual pressure required depends on the nature of adherends but is generally in the range of 4-10 psi (0.3-0.7 kg/cm<sup>2</sup>). Such pressure may be obtained by using a platen press, airbag or vacuum press.

### CURE RATE: (Effects of temperature and humidity):

Since the adhesive is moisture curing, its cure rate is dependent both on the temperature at the glue line and on the amount of moisture present in the air (or substrates) to take part in the curing reaction.

- Outstanding Adhesion to many substrates
- Strong Rigid Bonds
- Resistance to High and Low Temperatures and Moisture

### HEALTH and SAFETY DATA:

Full Health and Safety information on **PERMAROOF PU ADHESIVE** is available from the manufacturer.

### IMPORTANT NOTE:

*All the information in this Data Sheet is based on practical experience and is published in good faith. However, because we have no control over the manner or conditions in which our products are used, or over work undertaken or end product manufactured by the purchaser, we cannot accept liability for results. Responsibility for ascertaining the suitability of products for his purposes rests with the purchaser. All conditions, representations, statements, warranties or guarantees whatsoever, whether express, implied or statutory, in respect of any goods manufactured, sold or supplied by us are hereby expressly excluded and we accept no liability in respect of any claim for damage or consequential loss caused to any property arising directly or indirectly out of the use of our products or goods.*

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