



Anglo Adhesives & Services Ltd.

INDUSTRIAL ADHESIVE MANUFACTURERS - CONTRACT FILLING AND PACKAGING

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TECHNICAL DATA SHEET

EVODE SAFE 80

INTRODUCTION:

Evode Safe 80 is a non-flammable polychloroprene rubber latex based adhesive suitable for bonding a wide range of materials. It is ideal for bonding sheet laminates.

Evode Safe 80 is suitable for bonding decorative plastics, laminates and many other sheet materials to wood, plywood, wood chipboard etc.

Evode Safe 80 may also be used for bonding to smooth porous surfaces of concrete or plaster as well as canvas. Non porous materials such as metals and painted surfaces may be bonded provided that the adhesive films are allowed to dry completely before the bond is made.

FEATURES:

- It is non-flammable in storage and in use
- There is no risk of solvent attack on painted surfaces
- It can be used for bonding expanded polystyrene
- It is extremely easy to apply by paint pad, brush, paint roller, sponge or spraying
- It gives a smooth paint like finish when sprayed. Most sprayable contact adhesives 'cobweb' in use.
- It is economical in use
- Excellent bonds to a wide range of substrates
- Colour change indicates when adhesive is ready for bonding

METHOD OF USE:

Surface Preparation

All surfaces must be smooth, clean and dry. Very smooth or polished surfaces should be abraded with fine abrasive paper. Degreasing should be carried out in appropriate cases with a detergent solution, followed by rinsing with clean water; alternatively a suitable solvent such as Evo-Stik Cleaner 2 may be used for degreasing.

Polymer Base:
CR Latex

Cure Time:
24 - 48 hours

Coverage:
15 - 20m² per
Litre

Specific
Gravity:
@1.2Kg/Litre

Viscosity:
3750 mPaS

Solids:
48%

Cleaner or
Thinner:
Cleaner 2

Shelf Life:
12 Months

Storage:
5 - 30°C

APPLICATION

Thoroughly stir the contents of the container before use. Apply an even coat of adhesive, at the appropriate coverage rate, to both surfaces to be bonded. In general the application properties will be found very similar to those of a conventional emulsion paint. On porous surfaces such as concrete, plaster, canvas etc apply a second coat if the first is absorbed. The adhesive should be used at temperatures between 5 and 30°C.

APPLICATION METHODS

Evode Safe 80 is particularly suitable for application by paint pad and by spray techniques. Additionally it can be applied by paint brush, paint roller or sponge. The use of a notched or serrated spreader is not recommended.

PAINT PAD APPLICATION

Application by paint pad enables a very thin film of adhesive to be applied, ensuring that there is no high spots to delay drying. Trials have shown that an area measuring about 2m x 600mm can be covered with an even film in 20 seconds; this is even faster than the spray application. An even film applied by paint pad dries quickly, in about 15-20 minutes, depending upon ambient temperature and humidity.

SPRAY APPLICATION

This particularly useful for large areas and/or large throughputs, where spray techniques allow faster application than the other methods described below.

OTHER APPLICATION METHODS

Paint brushes, paint rollers or sponges may be used.

DRYING OF ADHESIVE

Evode Safe 80 must be allowed to dry before the bond is made. The coating is dry when the milky white opaque film becomes CLEAR. The adhesive dries by evaporation of water into the atmosphere and, on a porous substrate, also by suction of water from the latex into the pores. The drying time is therefore dependent upon the substrate, upon the spreading rate, and upon the temperature and humidity of the environment. Under normal conditions the film dries in 20-40 minutes. But in cold humid conditions a much longer time may be required. The process can be speeded up by warming such as by the use of radiant heat or by passage of a current of warm air over the surface.

BONDING

Within one hour of the adhesive film drying to the clear state, the two coated surfaces should be accurately positioned, then brought together. Adhesion is instantaneous on contact. Press the assembly together over the whole bonded area. Good results are obtained with a hand roller, and for routine work a power press will be found very efficient and convenient. Sustained pressure is not necessary.

PRODUCT CHARACTERISTICS

COLOUR & FORM: White when wet, colourless and transparent when dry.

CONSTITUTION: Evode Safe 80 is a polychloroprene latex and resin emulsion based blend.

PACKAGING: 5 Litre poly buckets

STORAGE: Store in original closed containers in a dry place, within the temperature range 5 and 30°C

COVERAGE: 15-20m/litre on a single surface; the figures reduce as surface porosity increases. Some very porous surfaces may require two coats with each not more than the 20m/litre can be obtained but higher coverage rates should be avoided, since the film deposited will be too thin. Bond area coverage calculations should allow for the fact that two areas are involved.

