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Technical Information

Grade: HydraCure D3 Water Resistant PVA Adhesive

AdCo HydraCure D3 is a one part self cross-linking PVA polymer emulsion based adhesive, for general assembly wood working applications, where a water resistant bond is required to BS 14256. HydraCure D3 is suitable for hot and cold pressing of high-pressure laminates to timber, chipboard, OSB and MFD. Also suitable for RF curing.

HydraCure D3 is suitable for veneering operations in the furniture and panel assembly industries.

HydraCure D3 can be used with AdCo A3040 activator to meet D4 specifications. An addition rate of 5% - 7.5% is recommended.

Properties:

Base:	PVA emulsion adhesive
pH:	approx 4.0 – 5.0
Viscosity @ 24 deg C	8000 -10000 cps (Brookfield RVF spindle 6)
Solid Contents	54% +/- 2%
Storage:	12 months in original unopened containers
Colour:	White liquid. Dries clear
Pressing Times:	2 – 10 minutes
Pressing Temperatures:	50°C - 85°C

Application Techniques

All substrates should be conditioned to room temperature before bonding. Ideally the moisture content of timer-based products should be around 8-10%.

Application can be by brush, spreader or roller to an average coverage of 100-120 g/m²

HydraCure is easily cleaned when wet using warm water.

Information given in this data is based on work of others and ourselves. It is believed to be reliable, but as the end use and application of this product is outside our control, customers must fully evaluate its suitability before embarking on commercial use. We are unable to accept consequential loss or damage however caused.



Material Health & Safety Data – PVA EMULSION BASED ADHESIVES

This safety data sheet has been prepared in accordance with the requirements of E C Directive 88/379/EEC and 91/155/EEC and provides information relating to the safe handling and use of this product.

1) IDENTIFICATION & COMPANY:

Supplied by: AdCo (UK) Ltd, Unit 9, Fernhurst Business Park. Haslemere, Surrey, GU27 3HB

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2) CHEMICAL CONSTITUENTS

No hazardous materials present as defined by Chemicals (Hazard information & Packaging for Supply) Regulations 2002 (CHIP 3)

3) HAZARD IDENTIFICATION

This adhesive consists mainly of aqueous polymer emulsions. Provided it is handles with care and good standards of hygiene are practised, it should not propose any undue hazard.

The following health hazards have however been identified:

- 3.1 Inhalation: No known hazard.
- 3.2 Ingestion: This adhesive is not poisonous in the accepted sense but it should not be swallowed. If ingested seek medical advice.
- 3.3 Skin Contact: The use of barrier creams and protective clothing are recommended, as repeated contact with sensitive skin can cause dermatitis.
- 3.4 Eye Contact: This adhesive can cause eye irritation. The use of protective goggles to BS2092 is recommended if splashing is likely.

4) FIRST AID MEASURES:

When medical assistance is sort, explain the nature of the product involved. Always ensure that these notes are available to medical personnel.

- 4.1 Ingestion: Reassure the casualty. Encourage the drinking of water. Seek medical attention.
- 4.2 Eye Contact: Rinse with plenty of clean water. If discomfort or redness persists consult a Doctor.
- 4.3 Skin Contact: Wash of adhesive before it dries. Dried product should be removed using skin cleansers.

5) FIRE FIGHTING MEASURES:

This adhesive is non-flammable. No restriction on fire fighting media No special instructions.

6) Accidental Release Measures:

Spillages present little hazard, other than the risk of slippage.

Pump up large spillages. Smaller amounts can be absorbed in sand or sawdust for approved landfill or incineration.

7) HANDLING & STORAGE:

This adhesive must be stored in sealed containers, preferably between 10°C - 25°C. Do not allow to freeze.

Use stock in rotation.

8) PERSONAL PROTECTION / EXPOSURE CONTROLS:

Follow protection advice given in section 3 above. No exposure control necessary.

9) Physical and Chemical Properties:

Base:	PVA emulsion adhesive
pH:	approx 4-5
Viscosity @20 deg C	8000 -10000 poise (Brookfield RVF spindle 6)
Solid Contents	54% +/- 2%
Storage:	12 months in original unopened containers
Colour:	White liquid. Dries clear
Pressing Times:	2 – 10 minutes
Pressing Temperatures:	50°C - 85°C

10) STABILITY AND REACTIVITY:

This adhesive is stable and does not react with materials into which it would normally come into contact with during storage or use.

11) TOXICOLOGICAL INFORMATION:

Assuming proper use no harmful effects have ensued.

12) ECOLOGICAL INFORMATION:

This adhesive must not be allowed to reach water sources in an unclean state.

13) DISPOSAL INFORMATION:

Dispose in sealed containers. Use an approved trade effluent contractor.

14) TRANSPORT INFORMATION:

Transport under conditions that prevent the adhesive from being exposed to freezing or temperatures over 30°C.

In case of accidental spillage follow instructions in section 6 above.

15) REGULATORY INFORMATION:

Labelling not required
Order relating to flammable liquid: Not applicable.

16) OTHER INFORMATION:

None

05/2012