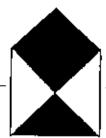
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DISASTER SALVAGE TEAM

Correspondence to: the Robert McDougall Art Gallery PO Box 2626 Christchurch Phone (03) 3650 915 Fax (03) 3653 942

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16 NOV 1994

TIBRARY



SAFETY OF CERAMICS

Editor:LynnCampbell

Executive Committee



The Safe Handling and Storage of Ceramics Rose Evans Objects Conservator Museum of New Zealand

<u>HANDLING</u>

common sense rules:

Problem - ceramics are hard/brittle and break on impact, therefore storage / display should be designed to minimise unnecessary handling.

Prior to picking up

- Examine condition.
 Are there any repairs as these may have weakened over the years.
- 2. Do not use handles or spouts.
- 3. Remove loose lids prior to movement.
- Avoid applied decorations or labels (especially gilding).
- 5. Use TWO hands.
- Have clean, dry hands with no jewellery.
- Do not wear gloves as you need a good grip. Gloves make hands slippery.

RH/TEMPERATURE LIGHT

Avoid temperature / humidity extremes (rapid changes). Therefore keep out of sunny spaces or spot lighted displays.

Some glass and glazes are affected by ultraviolet so do not display in direct sunlight always use ultra-violet filters on the windows.

STORAGE

Store in cupboards or shelves with no vibration / jarring.

Line shelves with soft, non - fibrous padding such as PE foam, sheeting.

If a ceramic is unstable on its base,it should be supported i.e. use a polyethene or cotton covered polystyrene bead doughnut.

Storage should provide protection from dust. Use clear plastic drop sheets where no closed storage is possible.

CLEANING

Keep handling to a minimum - this also means routine dusting and cleaning. Organise storage systems and display so that dust and dirt does not settle.

Ceramics should only be cleaned when deemed absolutely necessary, i.e. prior to exhibition. Conservation advice should always be sought when able.

Remove surface dirt using a soft bristle brush. Do not use clothe as this may snag fragile surfaces. Make sure glazes or decoration are stable (not flaking before using the brush. If the ceramic, glaze, decoration and joins / previous mends are stable in water then a light cleaning may be undertaken. Never immerse ceramics in water. Only distilled or deionised water should be used Never use hot water, detergents or bleach. Always apply using a swab. CONSULT A CONSERVATOR.

Guidelines to Packing Materials for Ceramics Compiled by Rose Evans, Objects Conservator Museum of New Zealand

This information was given at a seminar that took place in Christchurch in November 1993 Organised by the Canterbury Disaster Team.

The next workshop will take place in November 1994 and will be a Disaster Workshop on Flooding. There will be a recovery exercise with lectures and practical applications.

Should anyone require further information please contact:-

Lynda Wallace, Liasion Officer, Canterbury Museum, Rolleston Ave, Christchurch. Tel (03) 3668379.

ARCHIVART	
Other Names	Multi-use board, plyboard
Chemical Composition	Buth outer liners and corrugated medium are made from material above pit 7.0 - is buffered - strong and durable - resists shocks and bumps - comes in a variety - single or double
Suppliers	Ransons
Manufacturers	Archivart Products for Conservation and Restoration. Process Materials Corp.
Usage	in making containers for storage and support of objects. Backing board, shelf lining, boxes, trays.
Working Information	Developed to provide strong, rigid panels, acid free quality, good strength characteristics.

	BUBBLE PACK	
Other Names	Polybubble	
Chemical Composition	A barrier coated polythene with air bubbles on one side.	
Suppliers	Packaging House Ltd	
Manufacturers	CONFORM NZ LId	
Usage	For short term cushioning Interleaving and protective wrapping of objects: - excellent edge protection (buffering) - prevents provement - should not be used in permanent contact with object as	
	polythene deteriorates after a process of time.	
Working Information	(See above) Available in 3 standard sizes: Rolls: 440 mm × 60 m(0) 870 mm × 60 m(0) 1300 mm × 60 m(0)	
	As well as in paper bubble rolls, polythene sheets and bags.	
	Bubbles should <u>always</u> be on outside of packing as indentations caused by inverted bubbles on object surface have been noted.	

CALICO	
Other Names	
Chemical Composition	100% cotton, fine/even weave, white or unbleached. Wash to remove sizing.
Suppliers	Ackmead Holdings (Wholesale) Haberdashery
Manufactuzezs	Ackmead Holdings (See Decron Wadding Notes) Price: Calloo unblesched white, per metre 122 cm (w) \$1.65 per metre 137 cm (W) \$2.25 per metre
Usage	To support buffering material (Decrott, polystyrene beads, cotton batches) in use of pillow, doughnut cush(one and dust sheets.
Working Information	

	COTTON TAPE	
Other Names	Unen tape - lings different to cotton! Also very expensive and not necessary.	
Chemical Composition	100% cotton plain weave.	
5uppliess	Ackmead Holdings Group Haberdashery supplies	
Manufacturers	Ackmood Holdings Group (see Dacron Wadding Information) Price: Cotton lines tape unbleached 9 mm (w) x 1000 m \$31.20 per reel	
Usage	To secure objects, fragile, portable during transport, storage etc.	
\vocking Information	Available in varying thickness and colour, cut to length needed.	

DACRON WADDING	
Other Names	Tuiron wadding
Chemical Composition	Fitter material made from layers of bonded polyester (not to be used directly on objects).
Suppliers	Ackmend Holdings (Wholesole) Hoberdashery
Manufacturers	Eilis Fibre, Dungdin Autex Ackmead Holdings Group Ltd 55 Sydney Street, Parme, Wellington Phone: 568-5822 Fax: 568-5820 Price: Dacron roll 15 matre (f) \$137.70 \$9-18 per matre, Weight - 902
Usage .	Effective for padding out objects and forms. When used with textiles etc are buffer material advisable. Storage support pillows, cushioning, buffering of objects and textiles.
Working Information	Very lightweight, good tensile strength, mildew and josect resistant, is hydrophopic. Melting point 249-290°C. Comes in varying weights 1-9 ox.
	Must have isolating layer between Dacron and object as may catch, i.e. called, Rhoem cell-air, tyvek.

EVAZOTE	
Other Names	EVA foam
Chemical Composition	Cross-linked crosed call foam EVA to polymer, therefore not as stable as Plastazote.
Suppliers	Thorndon Rubber (Lower Hutt) Ultralon (Christchurch)
Manufacturers	BXL Plantics (Eng)
Usage	See Plastazote
Working Information	See Plastazote

HICORE CORRUGATED BOARD	
Other Names	
Chemical Composition	Polythene/polypropylane co-polymer.
Suppliers	Maira Plast 420 Notre Dame CP 600 Berthierville (Quebac) CANADA Tel: 514-836707] Fax: 514-8362315
Manufacturers	
Usage	Large, strong boxes and storage drawers. Use as flat support with a polyethylene foam for cushioning, i.e. pack foam and Rheem cell-air.
Working Information	Varying thicknesses - up to 14.0 mm thick. Stable, flat beard, very strong support, smooth finish. Cut to ideal size.

MYLAR	
Other Names	
Quemical Composition	Pure polyester, transparent film.
Suppliers	Ransons
Manufacturers	Dupont
Usage	Encapsulation. Windows on storage boxes (use double-sided tape to attach on Interior). Temporarily enclose specimens for exhibit. Exhibiting documents. May be used to prevent acid migrating in wooden drawer units (blotter placed over blylar sheet).
Working Information	Lightweight, stable, dear sheet film. Varying thicknesses. Creares stade - do not place adjacent to fragile medium, i.e. pastel, charcoal surfaces.

HOT MELT ADHESIVE	
Other Names	Thermogrip #6363, Bosilk 3 m #3764, Evo-Silck 7702.
Chemical Composition	Main component ethylene/vinyl acetate co-polymer suitable for constructing storage support.
Suppliers	Hardware or contact manufacturer for worldwide distribution.
Manufacturers	Bostik, 3M Company Evode Ltd.
Usage	Should not be used directly on objects. Making supports especially with polyethylene foams. Use with paper board, textiles, polyethylene foams and rods, Tyvek. To make containers, supports for storage, display and travel.
Working Information	

POLYETHYLENE BACKER ROD	
Other Names	Plestic tubing
Chemical Composition	Extruded, closed cell polyethylene foam. Herrules Backer Rod has been conservation tested CCI, however other brands should be tested before use. Do <u>not</u> use polyurethane backer rods.
Suppliers	D M Figlay Co Inc. 10 Kelly Court Menlo Park, CA, Tel: 415.329-8770 600.292-9919 Fax: 415.329601
Manufachaters	Applied Extrusion Technologies Inc maker of Hercules Backer Rod (HBR)
Usage	Doughtust support. Gasketing for exhibit cases and storage cabinets. Collars for support of objects.
Working Information	Variety of diameters ½" - 2½". Flexible, strong cushioning support. Cut with knife - do not use heat cutting equipment. Can attach using hot must adhesives, or heat gun.

PC	DLYURETHANE FOAM
Other Names	Chip foam
Chemical Composition	" - ''' - '''
Suppliers	Wiggins Teape (Paper House) Wellington Ultralon (Christchurch) Thorndon Rubber (Lower Hutt) Vita NZ Ltd (Upper Hutt)
Manufacturers	Vita NZ Ltd
Usage	Short term packing/storage for objects, cushion against of bration, impact.
Working Information	Available in varying sizes and thicknesses, over a long period of time becomes embrittled and leaches addic properties.
	 must use isolating layer between polystyrene balls and object, i.e. calico, tyvek, Rheem call-air-

RHEEM CELL-AIR	
Other Names	Tapex
Chemical Composition	Polyethylene
Suppliers	Packaging House (Wellington)
Manufactuzers	
Usage	Packing material/isolating barrier for Packfeam, Dacrop, polystyrene storage supports.
Working Information	(1990) Contains no volatile substances manufactured from food grade LDPE resin, tale plus extrusion processing.
	" (minor percentage which is non-toxic and U.S.F.D.A approved)

PACKFOAM	
Other Names	Jiffy foam, Jiffy pak, Rigid foam, Ethafoam.
Chemical Composition	Cross linked, rigid, closed cell polyethylene foam
Suppliers	Dunlop Flexible Foams (Importers)
Manufacturers	BXL Plastics (Eng) Dunlop Flexible Frams (Importers) 87-88 Harris Road, East Tamaki, Auckland P O Box 58-136, Greenmount, Auckland Phone: (09) 274-5789 Fax: (09) 274-4721 Ethafoam 220 E Plants 100 mm (W) Price: 2750 x 600 x 30 = \$ 49.30 2750 x 600 x 100 - \$165.30
Usage	F.C.L. Lots Packaging, storage mounts, display supports.
Working Information	Lightweight, strong, easily malleable using cutting utensity to specific forms: - stable material - available in two thicknesses 50 mm, 100 mm planks - not to be modified using heat apparatus - should have non-abrasive isolating layer such as Pheem cell-sic, called

PLASTOZOTE		
Other Names	Polyethylene foam, P.E. foam	
Chemical Composition	Low density, cross-linked polyethylene foam (closed cell)	
Suppliers	Thorndon Rubber (Lower Huit) Ultralon Froduces (Christchurch) "Ounloo Hearble Foams (Auckland)	
Manufacturers	BXL Plastics (Eng)	
Иза де	Packaging/Storage - cushioning/shock absorption truterial, ideal support/buffer of heavy or dense objects.	
Working Information	Conservation stable material preferable to Polyurethane, Evazote foams. Available in verying thicknesses from 3- 30 mm and differing length. Easily cut with sharp knife to sulted dimensions. Variety of colours.	

POLYPROPELENE FLUTE BOARD	
Other Names	Corflute, flute board, Coropiast, cor-x, polyflute.
Chemical Composition	Polypropylene/Polyethylene co-polymer.
Suppliers	Conservation Supplies (Wellington) Gratel Systems Ltd (Lower Hart)
Manufacturers	Gratel Systems Ltd. (Dannevirke)
Usage	Packaging/storage supports, containers, backing boards. Display mounts (2)
Working Information	Lightweight stable, flat board, strong support, smooth surface, cut to size suited, ideal for storage of heavier objects (ponable)

POLYSTYRENE	
Other Names	Bead balls, polystyrene blocks, polyballs
Chemical Composition	
Suppliers	Beta Interspan (Tajta) Golds Craft Shop
Manufactorers	Beta Interspan, 5 Paga Grove, Wingate Phone: 567-1465 Polystyrene manufacturers Price: \$40.00 per bag Oarge) 15.03.93
Usage	Short term packing/storage material of large objects.
Working Information	Expanded foam - good moulding characteristics, polystyrene easily cut with sharp knile or hot wire - lightweight packing material to fill vais and cushion against impact, however should only be used short term as material is unstable and at high temperature gives off poxious furnes.
	 must have isolating layer between polystyrene and object, e.g. calico, Rheem cell-air, tyveck, etc.

3M #415 DOUBLE COATED TAPE		
Other Nome	Double-sided tape	
Chemical Composition	Transparent double-sided tape with acrylic based adherive on a polyestar carder.	
Suppliers	Conservation Materials Ltd Light Impressions	
Manufacturers	эм	
Usage	Used with Myler sheeting to encapsulate labels. For long or short term storage, display, packing materials, i.e. whodows in storage boxes.	
Working Information	Inert, non-yellowing, reversible with solvents. Pressure sensitive. Available in 36 yard rolls, %", %", and 1' widths. Do not use directly on objects.	

TYVEK		
Other Names	<u>.</u>	
Chemical Composition	Spun-bonded olefin is 100% polyethylene fibre, corona treated to improve ink adhesion and coated with anti- static agent.	
Suppliera	Paper House Fabri-Cell	
Manufacturers	Dupont	
Usage	Covers interleaving between materials, over objects protection against dust, certain amount of water absorption. Isolating layer for storage supports.	
Wozking Information	Strong, lightweight, flexible, smooth anti-static available in sheet and rolls. Limited resistance to water, chemicals and abrasion.	

VELCRO	
Other Names	
Chemical Composition	
Suppliers	Acknowd Coup Ltd (Wellington) Haberdashery Stores
Manufacturers	Velcro NZ Ltd
Usage	Support fastening of textile materials and containers, archival boxes.
Working Information	Woven nylon and loop fasternings consists of pairs - one strip with minute hooks, the other loops, available in strips or dots. Also purchased with or without adhesive backing

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GUIDELINES FOR HANDLING CERAMICS

BY LYNN CAMPBELL CONSEVATOR MCDOUGALL ART GALLERY

General Guidelines

Keep working areas neat and clean.

Never be in a hurry

Always have clean hands or surgical gloves to handle ceramics.

Do not handle or carry more than one object at a time.

ALWAYS USE BOTH HANDS.

Prepare the passageway ensuring that doors are open and that a resting place for the object has been prepared.

Understand exactly what is to be done with the object before you move it.

Be aware of special requirements of the material involved.

Never walk backwards in the vacinity of other objects.

Handle works as little as possible.

Keep a lookout for damage.

Keep a watch for objects left in a potentially dangerous position and try to rectify the situation.



Handling Decorative Arts eg Ceramics

Lift objects by sliding one hand underneath the object and steadying the body of the object with the other.

Never lift by handles or edges. These can be the weakest parts despite being designed for being carried.

If the ceramic is carried in a box or tray stand the object in its most stable position before moving. For example, bowls are often wider at the rim than the base and should be transported in the inverted position.

Ensure that the objects are in good condition and not likely to fall apart when picked up.

<u>Unpacking Notes</u>

Do not hurry.

If packing is damaged or inadequate a photograph may be useful for insurance claims.

Take careful notes of all labels and do as they instruct.

Cut or undo fastenings. Do not rip.

Make sure that the object is unwrapped on a stable surface to ensure safety should the work fall.

Retain packing materials if they are to be reused and are reusable.

If the work is in a crate do not damage the crate getting into it.

Take poloroids of works inside to ensure you are repacking correctly.

It is always safer to pack individually in separate boxes and which can then be placed into a larger communal crate. In this way there is no risk of shiftig packaging damaging the object.

All objects should be completely covered with a piece of acid free tissue. DO NOT TAPE.

If there are protrusions make soft rolls of dacron covered with unbleached cotton to cover these areas.

After this cover with a material such as bubble pack this can be secured with one small piece of tape.

The pulling off of large pieces of tape can cause extensive damage when being unpacked.

When being packed / unpacked only one item at a time should be on the working surface.

Clear labelling of the outside of the box is essential. A diagram showing the method of packing on the outside is a good idea with a drawing of the object to describe its form.

When unpacking fragile objects all the packing must be removed from around the object before trying to release it from the box. Do not attempt to pull the object out.

In storage ceramics should be covered to prevent dust settling and where possible displayed in a dust free environment.

Reading List

Conservation and Restoration for Small Museums (1981)

Western Australia Museum, Francis St, Perth Western Australia 6000.

M Taylor, A Manual for the Handling and Packaging of Museum Objects. AGMANZ C/O MONZ, P.O. BOX 467, Wellington.