

# JOHN ASHWORTH & PARTNERS Ltd.

*Investigation Services  
Paints, Floorings, Chemical Analysis*

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## **REPORT**

**Prepared for**            **Rebound Squash  
Unit 6, Lot 12  
Jackson Meadows  
Station Road  
Oldham  
OL4 4QN**

**Subject**                    **Formaldehyde Assay**

**Report No.**                **R3207/22**

**Date**                        **23<sup>rd</sup> May, 2022**

*Services:- Chemical Analysis, On-Site Investigations, Expert Witness, Problem Solving, Research and Development, Innovation*

*Area of Expertise:- Solvents, Paints, Coatings, Plastics, Rubbers, Building Materials, Flooring*

*D.T.I. S.M.A.R.T. Award Winners 1989, 1992 and 1994*

*Clean Technology Award Winners 1990*

*Conservation Award Winners 1990*

Company No. 4140217

V.A.T. Reg. No. 408 2338 67

A sample of white squash court paint was submitted by Rebound Squash for determination of formaldehyde content.

Two analytical procedures were carried out.

- a) Formaldehyde content in liquid paint.
  - b) Formaldehyde emission from dried paint film.
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- a) This is an in-house uv/visible spectroscopic method. Paint was diluted, centrifuged & treated with acetyl acetone reagent.

Free formaldehyde concentration 1.0ppm

- b) This method measures the emission of formaldehyde vapour from the dried paint film. The procedure is based on BS EN 15102:2007 section 4.2 "*Release of Formaldehyde in accordance with EN 12149:1997*".

The paint was drawn down on foil at 150 $\mu$  w.f.t corresponding to an approximate spread rate of 10m<sup>2</sup>/l.

The paint was placed in an enclosed chamber & the released formaldehyde measured as per EN 12149.

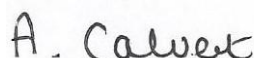
Formaldehyde release was measured at 2.2 mg/Kg

Maximum permissible value according to BS EN 15102 is 120 mg/Kg

Report checked by :



**John Ashworth MPRI PhD  
Principal**



**Angela Calvert  
Technologist**

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