

## Analysis of Paint Flakes

**Report No.** COA/06607

**Issue Date:** 23/02/2023

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The results contained herein relate only to the items tested. Unless stated otherwise, SOCOTEC UK Ltd was not responsible for the sampling stage and results apply to samples as received. Any opinions and interpretations expressed herein are outside of the UKAS accreditation.

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### Issue History

| Issue number                    | Issue date | Authorised by |
|---------------------------------|------------|---------------|
| 01                              | 23/02/2023 | SB            |
| Reason for issue                |            |               |
| First issue of finished report. |            |               |

### Sample Reference

| Sample Log Number | Client Reference |
|-------------------|------------------|
| 230171            | Off the column   |

### Sample and Method Descriptions

| Number of Samples Received | Matrix / Sample Description | Method ID | Description                                                                                                                                                                                                   |
|----------------------------|-----------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                          | Paint flake                 | IHM       | RESIN IDENTIFICATION - Fourier Transform Infrared Spectroscopy (FTIR) (Perkin Elmer Spectrum 100 with Multiscope System microscope) was used to examine each sample in order to determine the resin identity. |

## FTIR Analysis

Client Sample Reference: **230171**

Laboratory Sample Reference: **ASC/57029.001**

A portion of the grey paint layer was analysed by FTIR. The spectrum obtained from this analysis is shown below in *figure 1*. The spectrum was found to have stretches consistent with an alkyd paint.

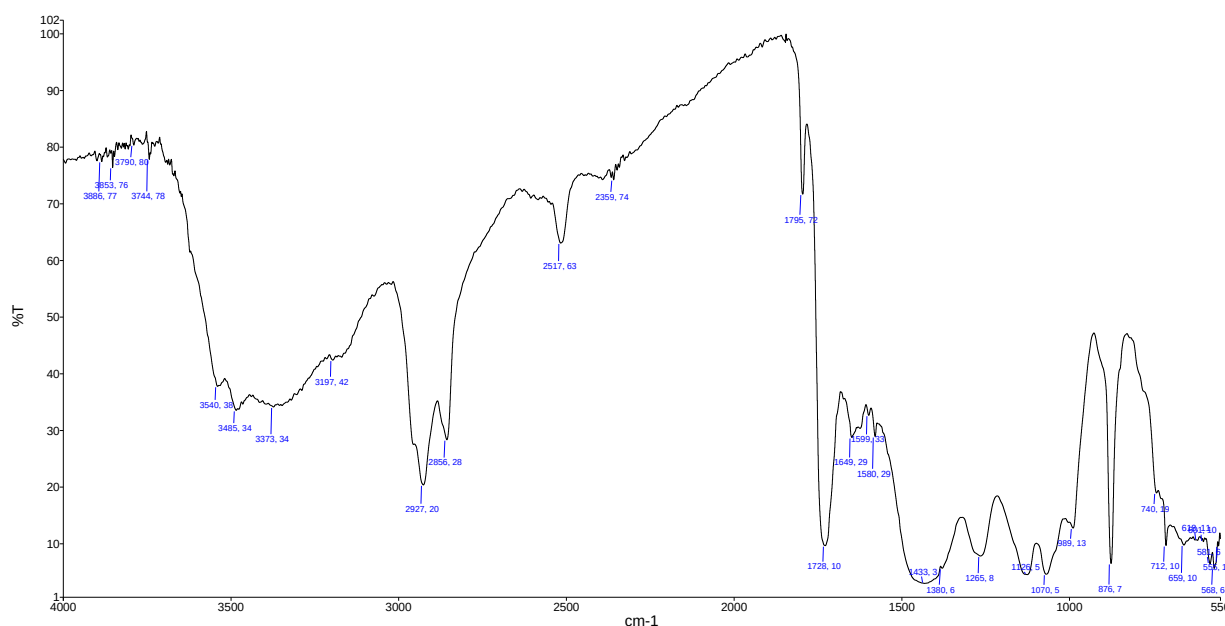


Figure 1. FTIR spectrum obtained from the analysis of sample ASC/57029.001 (230171).

Alkyd paints are often found as topcoats. Alkyd paint products can have adverse reactions to other topcoats which contain higher levels of solvent. When overcoating alkyd products it is advised to use another alkyd paint product or a product with a low solvent content.

Where doubts exist on the compatibility it is advisable to perform a trial area when applying new paint products over the top of the existing paint product to determine on site compatibility. If following trials doubts still exist it is best to remove the coating system entirely and apply a brand new system directly over the substrate.

## **Colour and Gloss matching**

Coda requested that SOCOTEC perform colour and gloss matching of the paint sample. Due to the size of the sample SOCOTEC determined that colour testing would have to be a visual match to the nearest RAL colour, and that gloss matching would have to be estimated to the nearest “gloss type” by laboratory members. Actual colour and gloss testing on site with digital equipment may produce slightly different results.

- Colour: Nearest colour match RAL 7044
- Gloss: Determined to be “matt” finish

NOTE: Due to the way sunlight can affect paint products, these results are based on the sample received, not the original application colour, there may be some variation in areas of the structure that have received more or less sunlight.