



Manufacturer's Information

Test No. 19-545: Paint Analysis

Each sample set contained three items consisting of automotive paint samples. Item 1 was a known paint sample representative of the damaged area of the vehicle. Items 2 and 3 were sets of questioned paint chips recovered from the damaged area of the child's bike and the curb, respectively. Participants were requested to examine the questioned paint chips and determine if either could have originated from the damaged area of the vehicle.

The paint samples in Items 1 and 2 were prepared from the same automotive paint panel. The test panel was described by the supplier as a gray coil coated aluminum substrate panel. The panel which made up Item 3 was made with the same basecoat and primer, but contained a different clear coat.

SAMPLE PREPARATION-

The panels used for this test were inspected for defects, and the areas containing defects were not used.

ITEMS 1 and 2 (ASSOCIATION): For the known Item 1, the paint panel was cut into approximately 1/2" x 1/2" wide pieces and one piece was packaged into a glassine bag and a pre-labeled Item 1 coin envelope. For the associated Item 2 samples, paint chips were cut into approximately 1/4" x 1/4" wide pieces. Two of these pieces were packaged into a glassine bag and then a pre-labeled Item 2 coin envelope. This process was repeated until all of the Items were created. Items 1 and 2 were taken in close spatial proximity to one another, within four inches, and were kept together as an identification group and packaged into the sample pack as described below.

ITEM 3 (ELIMINATION): For Item 3, the appropriate paint panel was cut into approximately 1/4" x 1/4" wide pieces. Two of these pieces were packaged into a glassine bag and then a pre-labeled Item 3 coin envelope. Item 3 was packaged into the sample pack as described below.

SAMPLE SET ASSEMBLY: For each sample set, Items 1, 2, and 3 were placed in a pre-labeled envelope. The sample pack was sealed with invisible tape. This process was repeated until all of the sample sets were prepared. Once verification was completed, all sample packs were further sealed with a piece of evidence tape and initialed "CTS".

VERIFICATION: The expected association results were confirmed by predistribution laboratories who used the following combined list of techniques: Stereomicroscopy, FTIR, XRS/XRF, and SEM/EDX.