

Application Note

This application note is about the non-destructive thickness measurements of paint on non-ferrous materials.

With the latest version of the Alphagage+ series in precision mode, the operator can easily recall from the standard probe library the default stored setup for Paint on plastic or paint on metal (see image 1). This measurement is done with a conventional 5 Mhz., .25" delay line. The thickness range of the paint is from .001" or 25.4 Microns to .100" or 254 microns. It is very important that the probe and part being tested are done in a stable temperature environment. It is important to know the substrate material so that the proper setup of the gage is chosen for the proper echo detection as a "phase reversal" will occur of the reflected signal with different substrates. In a paint on plastic scenario, the echo detection should be positive going as shown in image 2. While paint over metals should be set to detect a negative going signal.

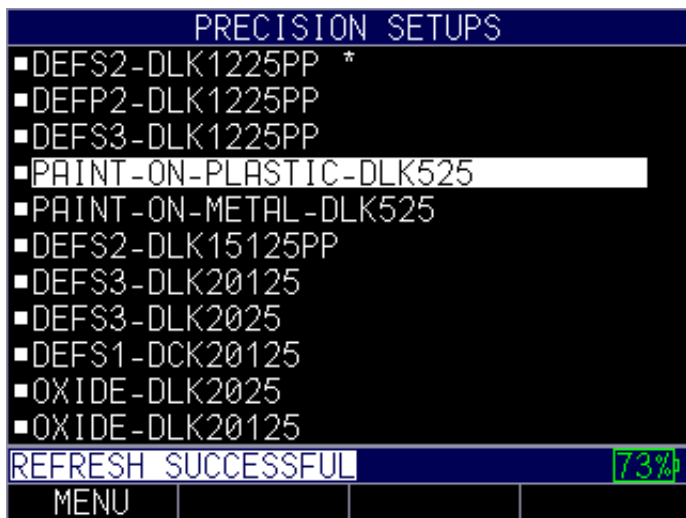


Image 1: stored setup menu

Industries

- Automotive

Typical Application

- Thickness Measurement

Inspection Techniques

- Echo-To-Echo
- Live Waveform

Features & Benefits

- Cannot make measurement with conventional coating gages
- Can measure paint on many substrates like plastic, steel, aluminum, composites, wood and concrete
- Easy to use
- Accurate



Image 2: Paint on metal car hood.

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