

DeFelsko® Powder Checker™

This simple, easy-to-use gage measures the thickness of applied dry coating powder...before it's been cured!

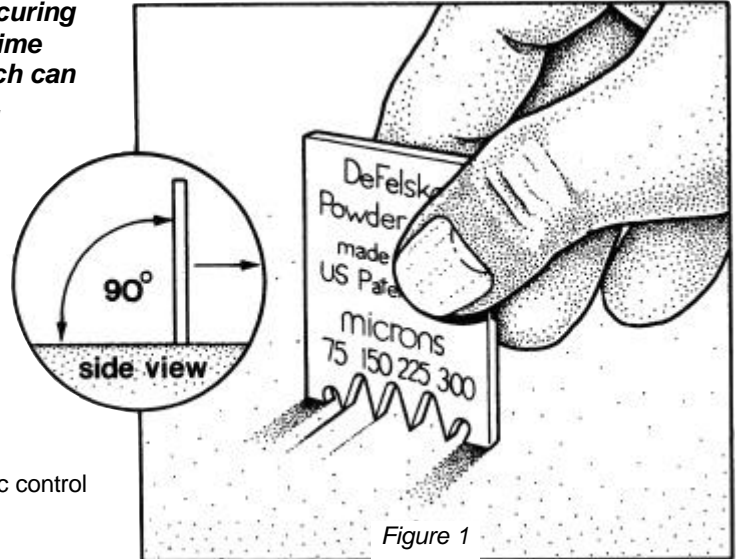
Check powder thickness with Powder Checker before curing to help insure correct cured film thickness the first time through the line. Avoid stripping and re-coating which can cause problems with adhesion and coating integrity.

Versatility

- Ideal for set-up and quality control
- Works on a variety of part sizes, shapes and substrates such as metal, plastic, wood, glass, and more
- Easy to carry; convenient shirt pocket size
- Available in mils (inch) or microns (metric)

Quality

- Broad stand-offs on both sides of teeth help keep gage perpendicular to surface when measuring
- Rugged aluminum construction for long gage life and static control
- Precision gage; manufactured to a tolerance of $\pm 5\mu\text{m}$



Simple Operation

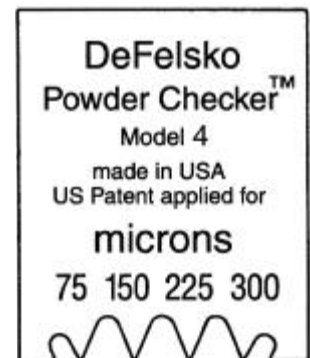
Apply the dry powder to a rigid substrate. Locate an area sufficiently large to permit both stand-offs (end tabs) of the gage to rest on the substrate in the same plane.

- 1 - Push the **Powder Checker** perpendicularly into the dry powder so that the two stand-offs rest firmly on the substrate. Some compressed powder may lie between the substrate and the two stand-offs.
- 2 - Move the **Powder Checker** along the surface of the coated part for at least 1 cm. Keep the gage perpendicular to the plane of the substrate. This movement allows the stand-offs to burrow down to the substrate and for one or more of the teeth to drag the surface of the dry powder and leave furrow lines.
- 3 - Remove the **Powder Checker** and examine the powder. The thickness lies between the shortest tooth making a line in the powder and the clearance of the next shortest tooth not touching the powder. Examine the teeth for verification. Film thickness is determined to lie between the shortest tooth with powder adhered electrostatically and the next shorter tooth without powder.
Example: The 75 and 150 micron teeth both make lines and have powder clinging to them but the 225 micron tooth does not. The uncured powder thickness is determined to be between 150 and 225 microns. (see Figure 1)

Clean the **Powder Checker** after each reading with a dry cloth or dry paint brush so that subsequent readings are not affected.

Note - Most powders cure to approximately 50% of their dry thickness. Marks left by the gage may affect the characteristics of the cured film.

Powder Checker Models	Height Tooth 1	Height Tooth 2	Height Tooth 3	Height Tooth 4
Model 4 (μm)	75	150	225	300
Model 5 (μm)	250	375	500	625
Model 6 (μm)	500	750	1000	1250



Shown Actual Size

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