PPG LABORATORY TEST RESULTS CERTIFICATION

PENCIL HARDNESS

PPG Industries, Inc. certifies the following performance properties for the Duranar® Coil Coating System when applied and baked on properly cleaned and pretreated substrates, according to PPG specifications:

COATING: DURANAR

TEST: ASTM D3363 - Film Hardness by Pencil Test

SPECIFICATION: For wood pencils, remove approximately 3/16 to 14 inch (5 to 6 mm) wood from the point of each pencil using a draftsman-type mechanical sharpener. Holding the pencil or lead holder at an angle of 90° to the abrasive paper, rub the lead against the paper maintaining an exact angle of 90° to the abrasive paper until a flat smooth and circular cross section is obtained. Starting with the hardest lead, hold the pencil or lead holder firmly with the lead against film at a 45° angle (point away from the operator) and pus away from the operator. Exert sufficient uniform pressure downward and forward either to cut or scratch the film or to crumble the edge of the lead. It is suggested that the length of the stroke be 1/4 inch (6.5 mm). Continue the process until a pencil is found that will neither cut through nor scratch the surface of the film. Any defacement of the film other that a cut (gouge) is considered a scratch.

RESULTS: DURANAR® coatings are controlled to an Eagle Turquoise pencil hardness range of HB to H.

May 1, 2002