Erratum

K. MOHAMMED JASIM, R.D. RAWLINGS and D.R.F. WEST, J. Mater. Sci. 26 (1991) 909. On page 915, text should read:

... may be related to the release of expanding hot gases from the plasma sprayed layer. The association of gases into bubbles, which escape upwards through the molten ceramic layer, is a probable mechanism. With higher energy and increased interaction time and greater depth of melting, an increase in the volume of gases produced and hence of bubble size may occur. The fact that the proportion of depression area to sealed area remains approximately constant may be interpreted as due to the escape of a greater proportion of the evolved gas, consequent on easier "flotation" of large bubbles upward through the sealed zone. Consistent with the proposed mechanism was that samples preheated prior to laser processing had a much reduced depression density that approached zero. The preheating drives absorbed species and gases out of the plasma coating, thus reducing the availability of gas for bubble formation during laser processing [16]. The fine cell size in the depression indicates more rapid heat transfer in these regions and the rippling pattern is indicative of periodic liquid flow into the depressions as the gas escapes.

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RAPRA, Physics Abstracts, Paint Titles, System for Documentation and Information in Metallurgy, Weldasearch, World Surface Coatings Abstracts, Polymer Contents and Applied Mechanics Reviews.

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