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We prove that every simple connected graph with no K_5 minor admits a proper 4-coloring such that the neighborhood of each vertex v having more than one neighbor is not monochromatic, unless the graph is isomorphic to the cycle of length 5. This generalizes the result by S.-J. Kim, S. J. Lee, and W.-J. Park [Dynamic coloring and list dynamic coloring of planar graphs, submitted, 2012] on planar graphs. (Received November 22, 2012)