## Thaumasite Formation due to the Use of A ggregat es with High Carbonate and Sulphate C ontent

M.L. Sánchez De Rojas <sup>1</sup>, R. Sotolongo <sup>2</sup>, M. Frías <sup>1</sup>, E. Sabador <sup>1</sup>, F. Marín <sup>3</sup>

<sup>1</sup>Instituto Eduardo Torroja (CSIC), Madrid, Spain, <sup>2</sup>Construcción y Restauración, Murcia, Spain, <sup>3</sup>Escuela Superior de Ciencias Experimentales y Tecnología.Universidad Rey Juan Carlos. Madrid.Spain

The formation of thaumasite in mortars and the influence of this mineral in relation to deterioration of building materials are discussed. An invest igation of a mortar elaborated with dolomitic sand with high content of sulphates used to settle a ceramic pavement was carried out. This mor tar has undergone an important deterioration process due to the formation of expansive compounds in the environment al conditions of temperature and humidity of the installation in Murcia (Spain). Materials present in the soft pulpy mass were examined by means of x-ray diffraction and scanning electron microscopy with EDX, and the presence of thaumasite was identified.