

IL RUOLO E LA CONSERVAZIONE DELLE PAVIMENTAZIONI STORICHE DI PIETRA NELLA DIMENSIONE URBANA E TERRITORIALE DI ROMA: L'ACCORDO QUADRO COME STRUMENTO PER GLI INTERVENTI IN CENTRO STORICO ED IL PIANO SANPIETRINI

ERNESTO DELLO VICARIO

Dipartimento CSIMU, Comune di Roma - ernesto.dellovicario@comune.roma.it.

STEFANO BELLA

Dipartimento CSIMU, Comune di Roma - stefano.bella@comune.roma.it

STEFANIA NARDOCCI

Dipartimento CSIMU, Comune di Roma - stefania.nardocci@comune.roma.it

GRAZIA SIGNORI

Mapei SpA - g.signori@mapei.it

Abstract

In the context of architectural paving, the UNI 11714-1 standard introduces a technical approach to the choice of the stratigraphic package, according to both the end use and the type of paving to be laid. The final requirements are durability, sustainability, maintainability/cleanability and safety of the work.

Certainly, the first form of saving in terms of sustainability is to ensure a long 'life' for the paving.

The key is therefore durability. This means identifying and taking into account the key aspects (stresses and performance characteristics of the stratigraphic package) at the design stage.

According to current and/or mandatory regulations, the characteristics of each element of the stratigraphic package are determined by means of rupture tests, which investigate the limit state of the individual layer, but unfortunately do not provide any information on fatigue resistance or on the behaviour of the package as a system of interacting layers undergoing continuous stresses during life-service.

In the absence of test methods dedicated to the study of the two aspects of fatigue, the Ciri Edilizia e Costruzioni - Centro Interdipartimentale di Ricerca Industriale dell'Università di Bologna has developed software for carrying out numerical analyses aimed at defining the performance level of different paving packages.

Parole chiave/Key-words: *stone paving, durability, sustainability, performance software, fatigue*