Soiling

Translations
German : NC
English : NC
Spanish : NC
French : Encrassement
Italian : NC
Portugese : NC

Definition : Deposit of a very thin layer of exogenous particles (eg. soot) giving a dirty appearance to the stone surface.

Relationship with the substrate : With soiling, the substrate stucture is not considered as affected.
Soiling may have different degrees of adhesion to the substrate.

Synonym(s) : NA

Other orthograph : NA

Sub-type(s) : NA

Not to be confused with : - Crust, which has a visible thickness.
- Deposit, which has a visible thickness, and not systematically a dirty appearance.

Other remarks : With increasing adhesion and cohesion, soiling can transform into a crust. Soiling may originate from atmospheric pollutants (industrial, domestic or car exhaust products) or from particles transported by running water or heating convection.

References : Fitzner / VDI / MDDS

Soiling

This very particular type of soiling is specific of stone surfaces treated with water repellents.Water pathways are limited to narrow stripes, where algae may develop preferentially.

Thin, veil-like soiling by atmospheric dust on horizontal and subhorizontal parts of the sculptures.

France, Versailles, Castle Park, marble sculpture, 2002. Large side : ca. 0.6 m. LRMH / V. Vergès-Belmin

Soiling at the surface of a limestone sculpture protected against rainfall.

France, Marseille, La Nouvelle Major cathedral, Grey Serena sandstone and white limestone, 2006. Size of the tympanum : ca. 2.5 m. CICRP / J.-M. Vallet

France, Reims, Cathédrale Notre-Dame. Façade occidentale, portail central, 1989. Head size : ca. 40cm. LRMH DIA00015622 / J.P. Bozellec