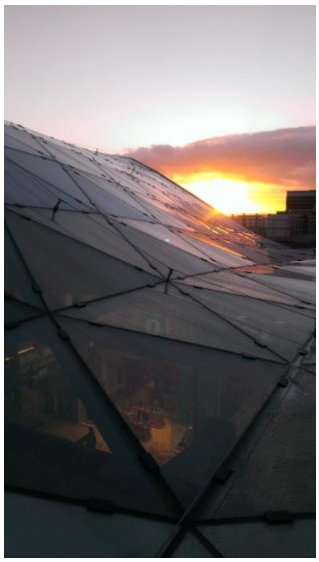
Westfield London Shopping Centre

Roof cleaning and coating with SiO^2 / Stone coating / tile coating



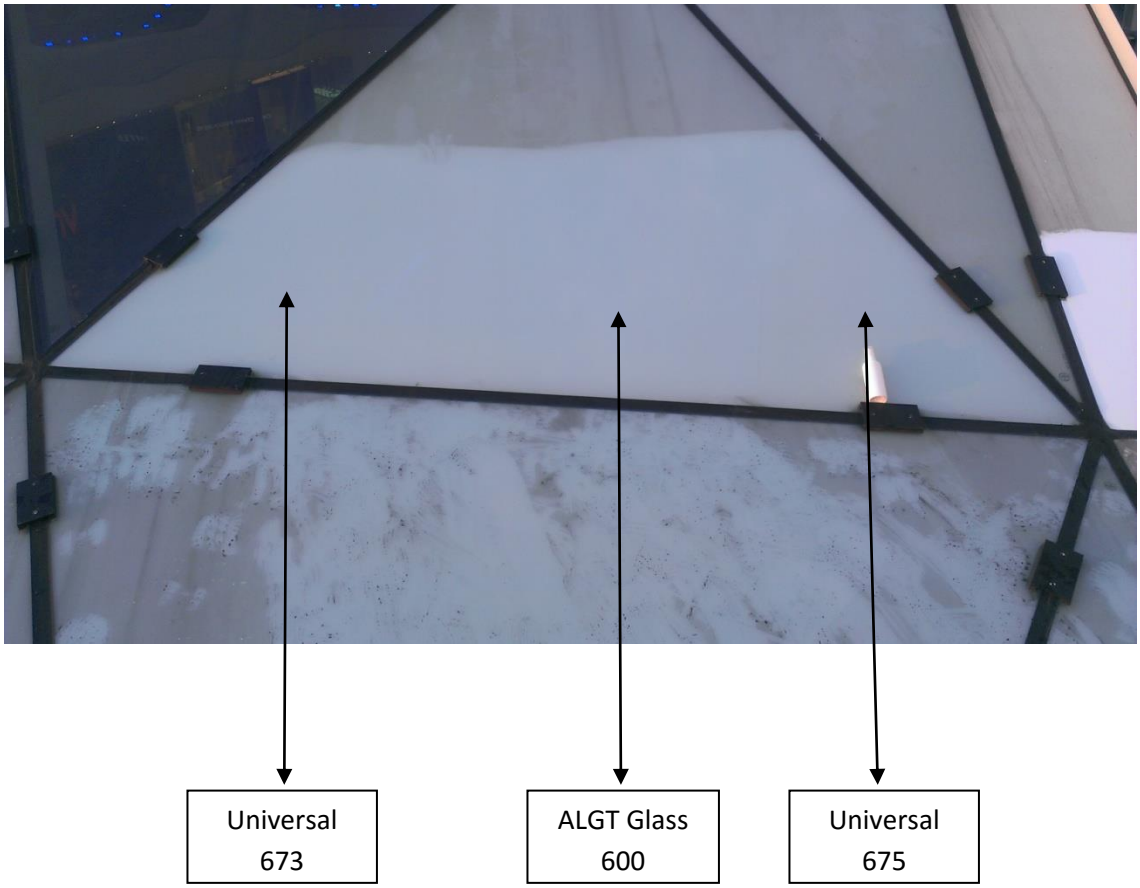
The aim of this project will be the application of Liquid Glass coatings in order to make the surface less prone to soiling build-up and to make them significantly easier to clean.

Plastic fascias and soffits

These surfaces are highly soiled.

After cleaning it will be very easy to apply the coating.

The coating used for this trial was Universal Coating 673.



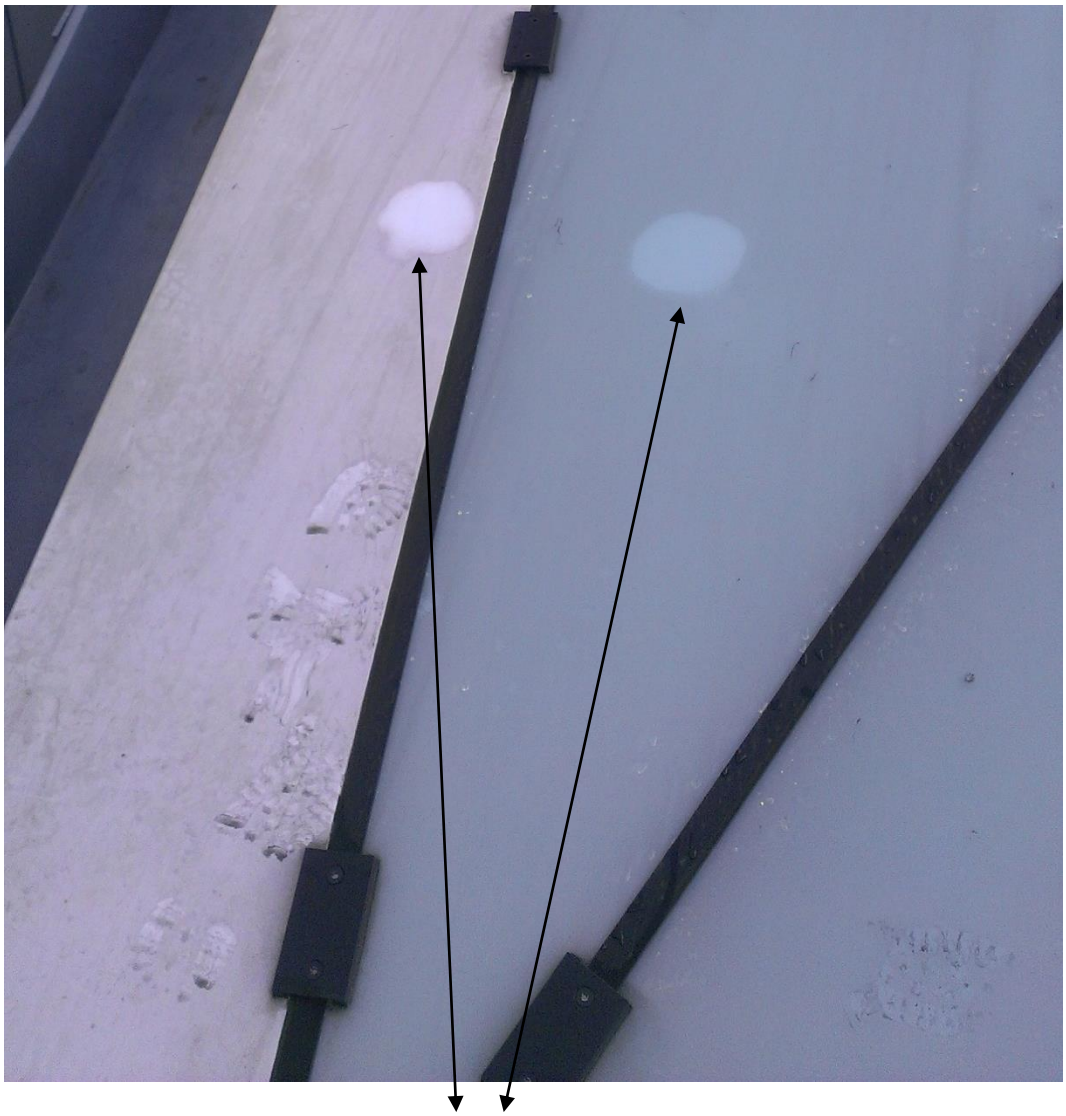
As noted, the surface of the glass was heavily contaminated. Cleaning with IPA showed that after 10 cleaning actions the glass was still contaminated as the soiling was ingrained.

It is suggested that the best cleaning process will be as follows.

1. Clean with Biosativa® in a 1 to 10 ratio to remove the heavy soiling.
   This will be conducted with soft brooms.
2. Rinse the surface with water.
3. Clean the surface with Biosativa® in a 1 to 20 ratio using micro-fibre mops.
4. Rinse and dry the surface.

(Biosativa® is an award winning Bio Cleaner. It will not damage any of the paintwork or sealing agents.)

The application process can be via wiping, if spraying of an alcohol based coating is not permitted.

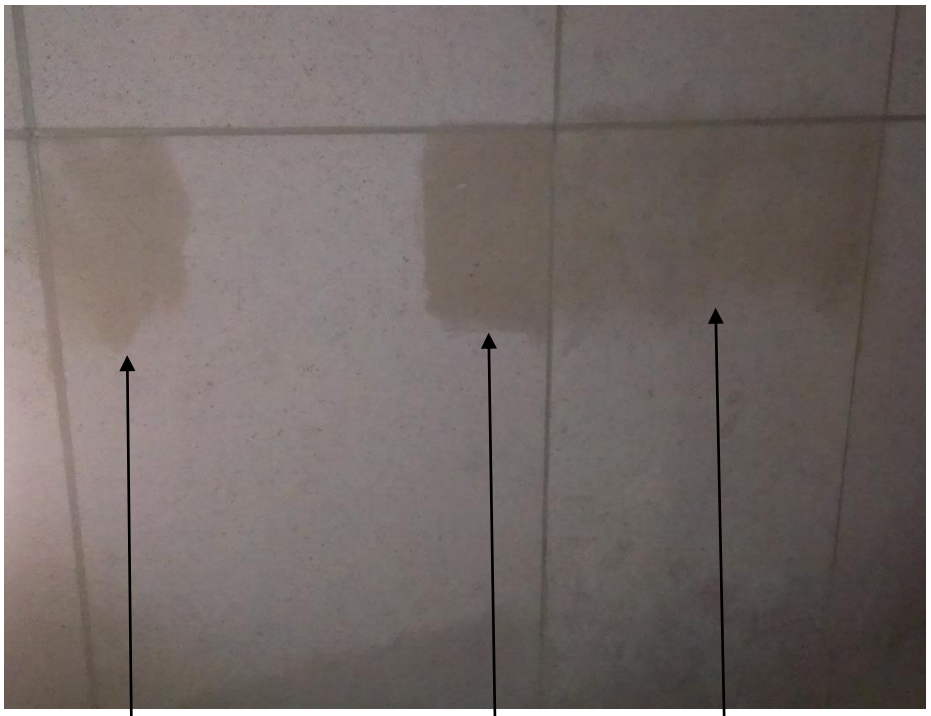


Area cleaned with Biosativa®. Subsequent wiping with a white cloth and IPA indicated that this primary cleaning action had been very successful in cleaning the surface.

Coating of Stone surfaces in order to reduce bonding of soiling agents

The “stone” would appear to be a hybrid stone coating. It is highly absorbent. (It would be necessary to know if this is a hybrid stone as we offer different coatings for such surfaces.)

The coatings used are undetectable and should not alter the tone/ appearance / texture of the stone. We can offer coatings which offer an anti graffiti/ glossy finish if required.

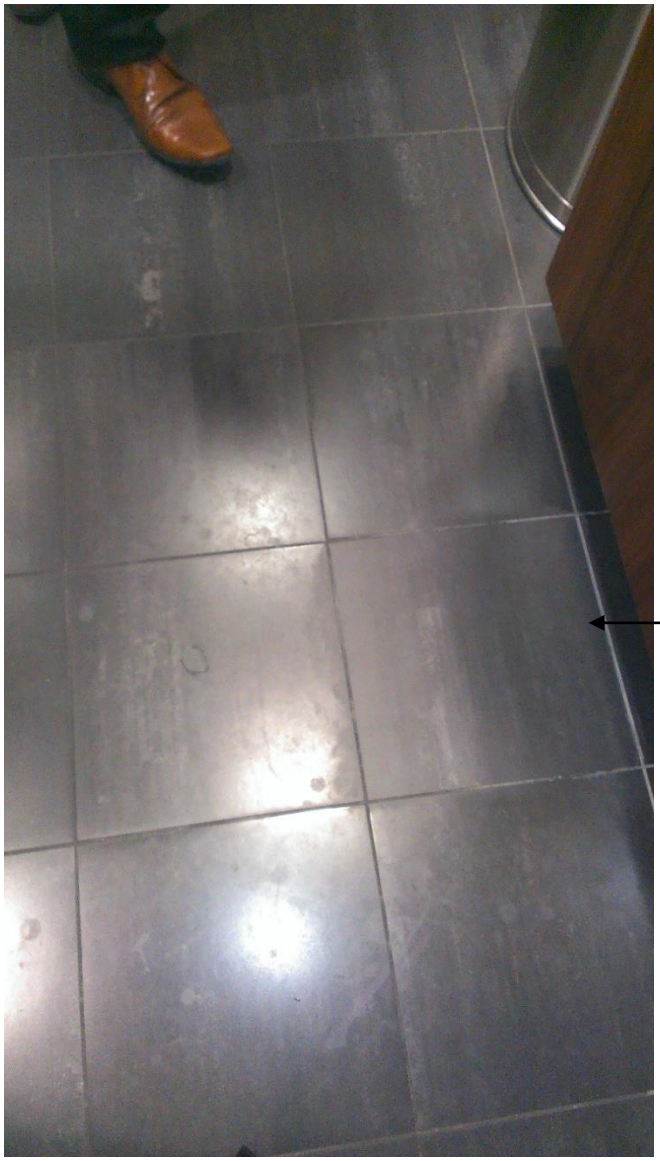


Universal 675	Universal Silane 673	Water based stone coating 695

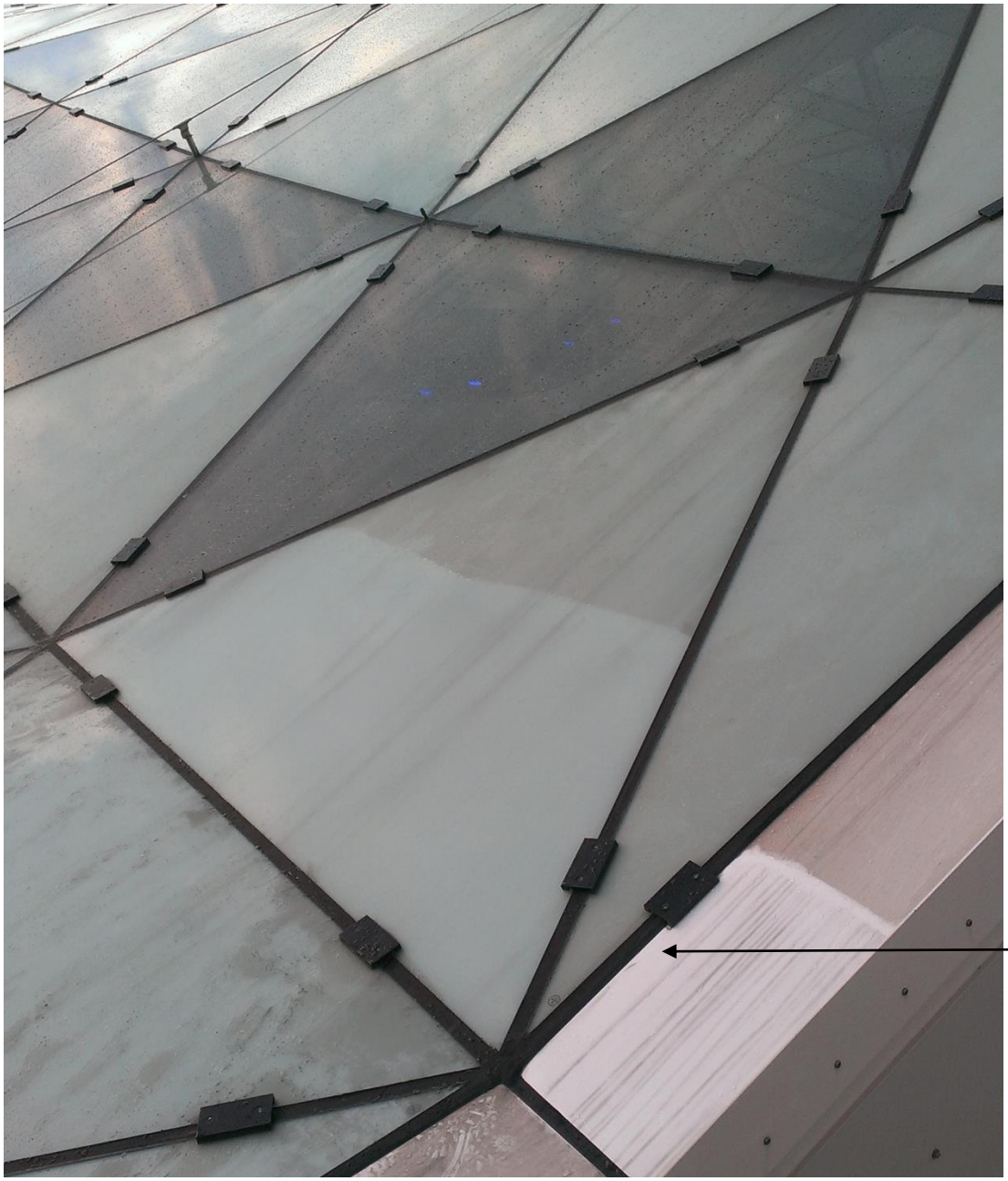
Toilet floor coating

The image presented below shows an area which has been cleaned and the coated with universal coating 673. (The Universal 675 or a glass and ceramic coating may also be suitable)

It was apparent that the staining lay within the top coat of “polish”. The staining was caused by a cleaning agent. A very mild abrasive agent, suitable for glass, was used to remove the staining.



After 4 (winter) months



This area is completely clean as it has not been exposed to "run off"

The cleaned and coated area would have been very clean if the area above had also been cleaned and coated. The streaking is caused by "run off" from the highly soiled area. The streaks are easily removed with water as the contaminants have not bonded to the surface.

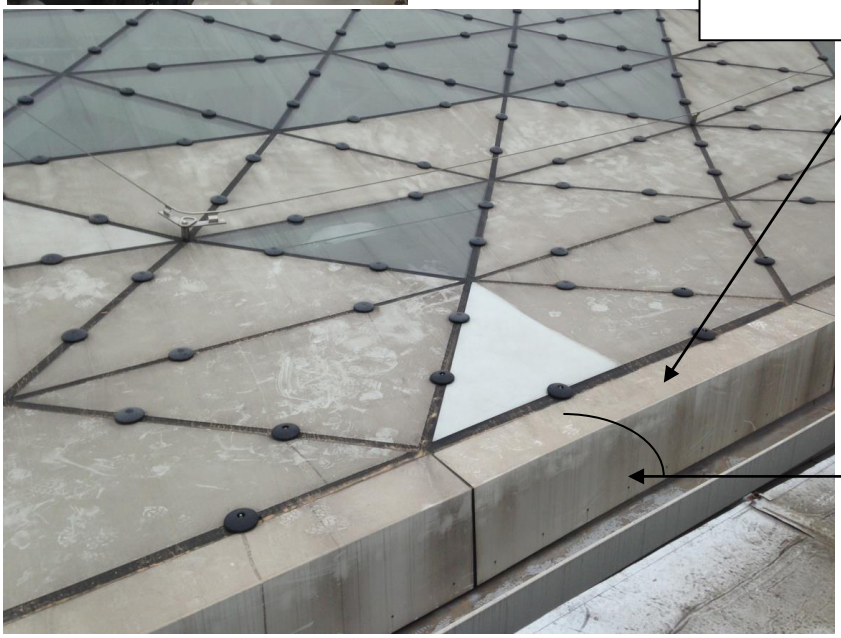
It is suggested that TiO^2 coatings would be overwhelmed by the heavy soiling and they would become ineffective. (We supply both TiO^2 and SiO^2 coatings)

Follow up meeting 4-4-14 Westfield London Roof Cleaning and Protection Project.

Area cleaned and protected some months before

Comparison of Biosativa® and detergent cleaning. Biosativa® was clearly more effective.

This area is a mixture of glass and acrylic panels. The acrylic panels are heavily soiled and require additional cleaning. Biosativa® cleans the area quite effectively as noted in the images, but cleaning the plastic/acrylic surface with stainless steel cleanerBLU1000 is probably required in order to provide a surface suitable for coating



Area coated with universal SI coating 673

Acrylic area cleaned with stainless steel cleaner BLU1000. Note that it is brighter than the area cleaned with Biosativa® as the soiling is ingrained within the surface. Cleaning with this process creates an “as new” appearance but it will require more cleaning effort in the first instance.

This additional time would be offset by rapid cleaning in following years.