CLEANING AND SUBSEQUENT COATING OF A SECTION OF PENZANCE PROMENADE

CLEANING

There was heavy staining around the site of the Burger Van. Refer to image 1

Unlike the oil staining from the previous oil spill, the staining which was encountered on this occasion would appear to have been a mixture of oils and various other staining agents. This resulted in deeper penetration into the promenade structure. The cleaning process was ultimately successful. (CCM's Biosativa® Bio Cleaner was the stain removal agent for this project.)

Staining from oil drips on the "slab" to the south west of the Burger Van.

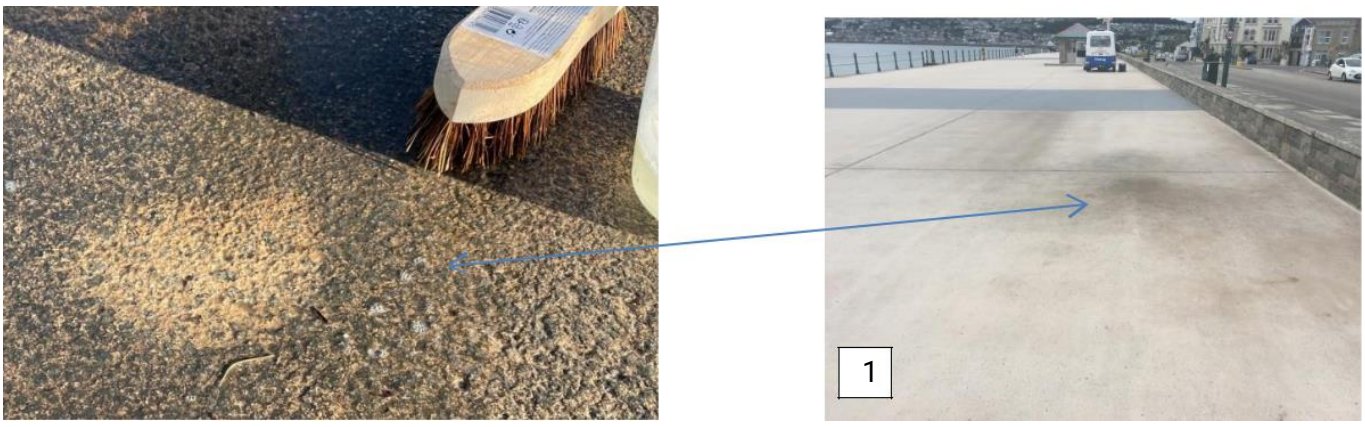
It would appear that this staining was from a vehicle. This staining also penetrated the stone to a significant depth. The cleaning of these drops was "satisfactory".

Cleaning around the fixed seating.
The staining in these areas was significant and would appear to be from a range of staining agents.

Staining in and around the "shelters".
The concrete used to create the flooring in the shelters was highly porous and stain removal was challenging.

General staining which was found throughout the project area.
All stains were cleaned with Biosativa and the whole of the target area was scrubbed and pressure washed.

It should be noted that several areas were stained again during the evening (post cleaning) and additional cleaning was undertaken on the morning of the September 21st, 2021.



Cleaning with BioSativa® -Trial on area prior to full cleaning process

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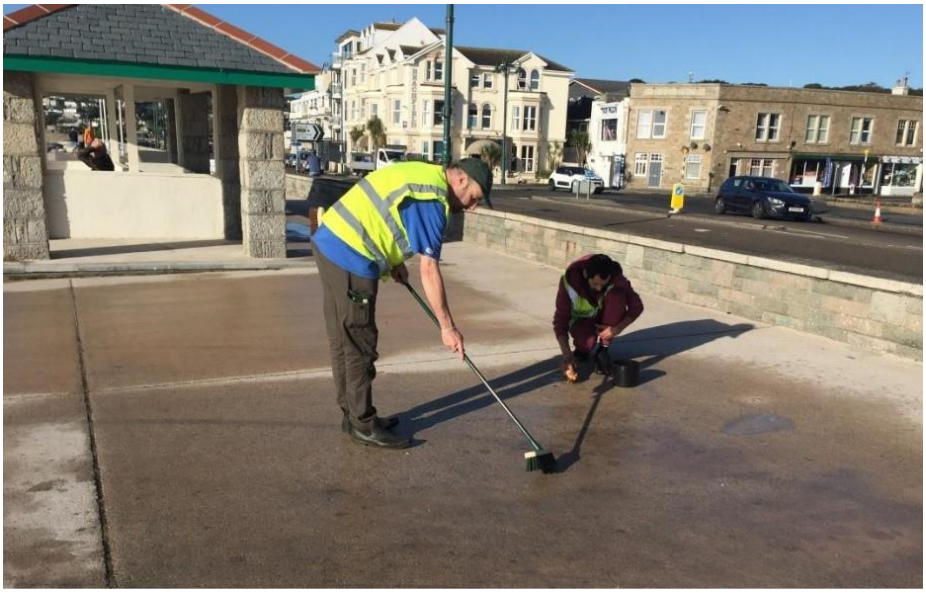
The team from LGS were approached by numerous members of the public who asked about which cleaner was being used. The fact that the cleaner was a Bio cleaner was very important to them.



Removal of localised staining. (Oil drops from vehicle?)

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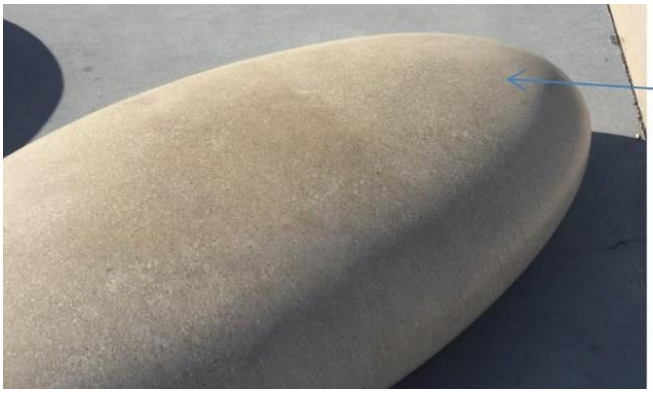

The cleaning and protection of the “stones” was not part of the project but a trial cleaning process was enacted on the rh. side of this stone.

The process indicates that cleaning and coating may be worthy of consideration.

APPLICATION OF THE 7620 COATING

The 7620 protective coating was applied to the target area by spray application.

The attached images show that after 14 hours the protected area was hydrophobic.
Full curing takes approximately 48 hours.

The coating was applied at the optimum level around the fixed seating (in both the shelters and the promenade) and in the area where the Burger van and Ice Cream van reside.

The rest of the promenade was coated with the lightest suggested coating layer.

BENEFITS OF COATING THE PROMENADE

The coated areas will remain cleaner and most staining agents from food products will not penetrate the stone. (It is not anticipated that there will be profound staining from any food agents.)

In areas of known high soiling it may appear that the areas are soiled as the surface contamination will rest within the naturally open structure of the promenade substrate but this soiling can be easily washed off. In times of heavy rain it will become evident that the soiling has dissipated. In the case of deposition of oils. eg immediately beneath the counter of the Burger Van; it is recommended that a gentle wash with Biosativa® at a ratio of 1 to 30 (1 part Biosativa® to 30 parts water) is considered when there is a build up of soiling on the surface.

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MAINTENANCE

The 7620 penetrative coating is exceptionally robust. Having noted this, continued abrasion and cleaning cycles will eventually impact on the performance of the coating.

Re application to areas which are subjected to significant abrasion and cleaning can conducted with either spray or roller application.

Comparison of coated and no coated areas.

Please refer to the image below.

Not protected with 7620.
Water easily penetrates the surface.

Area coated with 7620.

Water “beads “on the surface due to
Strong hydrophobicity / oleophobicity.

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