

Kalfarhagen Test Project 2014-2020

The building is an apartment complex in Kalfarveien in Bergen. The building consists of white painted concrete. The paint is a white acrylate paint from Beaker's paint. The east side of the building is close to green surroundings with lots of deciduous trees and forests. It is about 300m distance to E39 / E16 which is one of the busiest roads in Bergen. As the building is located in Norway, the building is exposed to a lot of acid rain which results in black gutter marks on the facade and provides an extra green basis for greenery.

Overview pictures of Kalfarhagen:



Problems with greenery and acid rain:



North side of the building.



East side of the building.



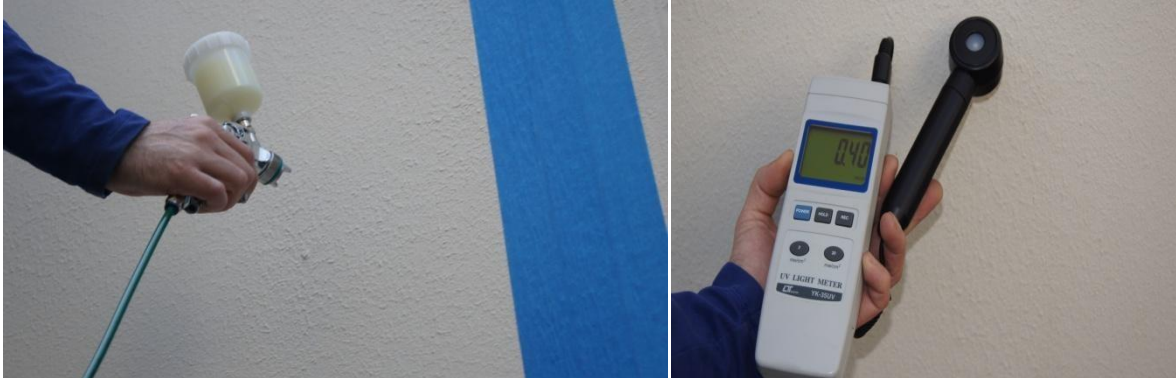
South side of the building.

Together with a representative from Kalfarhagen condominium, we selected a suitable test area. The wall the test was performed on is facing east and lies in the shade almost all day. This wall was designated as the worst wall in relation to greenery and acid rain, according to the representative. The wall had been washed in advance by Befas AS, a couple of weeks in advance. Due to a number of "bubbles" and dandruff in the paint on this wall, the test was performed in an area where the paint apparently appeared to be in good condition. The test area was masked in, approx. 4.5m high and 1m wide. Although the test area apparently looked completely clean, we chose to wash it with VitalOxide and water. This is to be absolutely sure of getting a good enough attachment to the surface. We could not see any visible difference after washing.

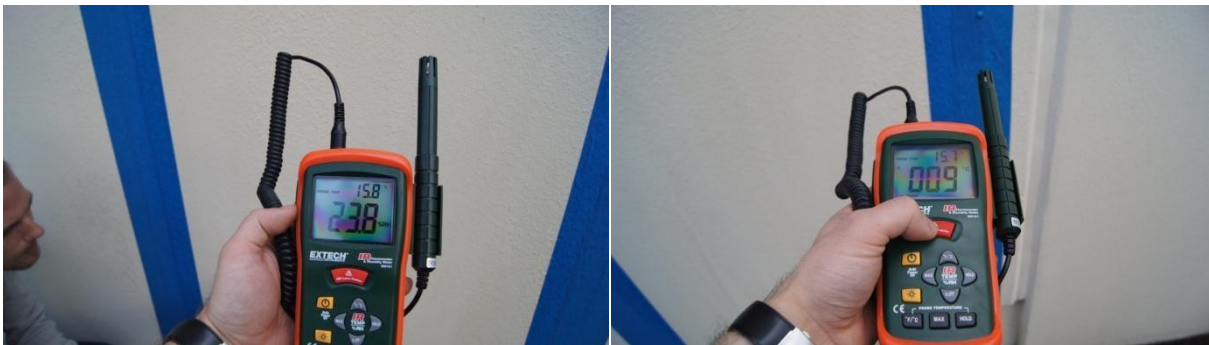


Test area masked, washed and ready for application.

The test area was treated with two coats of Pureti Base Coat and one coat of Pureti Clear. Pureti Clear is suitable for slightly porous surfaces such as painted surfaces, facade panels and glass. Between coats we had a drying time of 5 min.



Application with compressed air and low pressure sprayer (30-40 psi). Brightness in the shade 0.40mw / cm²



Relative humidity of 23.8%.

Air temperature 15.7 ° C and surface temp. at 9 ° C.



The test area has been completed (24.4.2014). After the treatment, we could not distinguish between the area that has been treated and the surrounding area.



After 3 months we can start to see which area the test was performed on.



Test area after 4 months. It is now becoming more and more clear where the Pureti Clear treatment has been performed. We can clearly see the separation from the masking tape and otherwise on the wall around the test we see clear signs of gutter marks and what is the beginning of greenery.



Test area after 5 months.



Test area after 5 months. We can now see very clearly where Pureti Clear is applied. The test area is completely clean while the surrounding area has absorbed color from acid rain and greenery.



Test area after 6 months.



Test area after 6 months. The test area is still clean and nice, while the surrounding area has a clearer green color from greenery and acid rain.



The test area after 11 months (21.3.2015). Now the test has been through the winter. The test area still looks just as clean and nice, while the surrounding area has become somewhat greener.



The test area after 16 months (31.8.2015).



The test area after 16 months (31.8.2015). The test area still looks just as clean and neat. The board of Kalfarhagen co-owns are very satisfied with the test and has decided to clean their buildings and have all the facades treated with Pureti. The test has now been completed and all buildings were treated with Pureti.

12 mnd. Etter normal nedvask (August 2015)



12 mnd. Etter nedvask og påføring av PURETi (August 2016)



Project Kalfarhagen after five years





In August 2020, the PURETi-treated surfaces are cleaner than what the buildings were after 12 months of normal washing down.

«The buildings were washed down in the summer of 2015 and the nanoproduct PURETi was applied in a very efficient and fast way. The treatment got the housing association back to all its glory, and could look like it had been freshly painted again, to the delight of all the residents. Now, after another wet and long winter, it shows no signs of building up dirt and greenery and the guarantee that this will persist is 5 years.»

After inspection in May 2020, the effect of PURETi is still very visible, it may seem that it seems even stronger now in the last year. The board of Sameiet Kalfarhagen is now considering whether to postpone the painting of the facades for another 3-4 years and that a new treatment with PURETi will be done then. The warranty period is 5 years, but the expected working time is up to 10 years and as it looks here, such a postponement of painting the buildings will seem beneficial.

Now, as mentioned, the product has been on the buildings for 5 years and we can recommend PURETi to anyone who wants to keep their properties cleaner.

That PURETi also contributes to the neutralization of NoX is a nice bonus.»

- Jan H. Hansen

Board member Sameiet Kalfarhagen