



CONCRETE REPAIR SPECIALISTS  
BRICK & STONE CLEANING CONTRACTORS  
(by all processes)  
STONE RESTORATIONS

Barratt London  
Re Nestle Site Hayes  
Att Liam Zollino

Date 15-01-20

Dear Liam

Further to our site survey carried out on Tuesday 17th December 2019  
I have the pleasure in enclosing our report and photographs of the types  
of repairs that's required to the main facades of the building

Based on our visual survey carried out to the complete concrete surfaces  
to all wall areas, beam areas and column areas these areas will require  
complete paint Removal carried out, this will be achieved by fully grit  
blasting all concrete surfaces. These works will need to be carried out to  
both sides of the facade areas as specified by the Sika specification to  
remove all previous coatings

Once these works are complete, we will then undertake a full hammer test  
and cover meter test survey all concrete elements

This is to record the full extent of all areas of repairs that's required

Based on our visual survey which was carried out we have identified  
5nr types of repairs

These repairs will be required throughout the contract

Details of each type are as listed below

Type 1 Repair ( face repair to either Beam / column or Wall area )

We diamond disc cut the full perimeter of the repair zone area  
We break out the full extent of the area the concrete and remove all  
unsound concrete back to a sound substrate We to fully expose any  
reinforcement steel that's found and mechanically clean to remove all  
surface corrosion, Once this has been completed We to then apply  
1 application of Sika 610 Reinforcement Primer this is to be applied to all  
previously cleaned exposed reinforcement steels

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We to then apply 1nr application of Sika 610 Bonding Primer to the repair substrate area this is to be applied by brush application  
We to then apply by either hand application or trowel application the Sika 615 Concrete reinstatement mortar this is to be fully compacted into the repair zone area and float finished to a smooth and level surface

Once the above process has been completed, we then move onto the corrosion management treatment application

### Type 2 Repair ( Cracks within the All Concrete Surfaces )

We diamond disc cut the full length of the crack area  
We break out the full extent of the area of the concrete and remove all unsound concrete back to a sound substrate  
We to then apply 1nr application of Sika 610 Bonding Primer to the repair substrate area this is to be applied by brush application  
We to then apply by either hand application or trowel application the Sika 615 Concrete reinstatement mortar this is to be fully compacted into the repair zone area and float finished to a smooth and level surface

Once the above process has been completed, we then move onto the corrosion management treatment application

### Type 3 Repair ( Corner edges to Beams and Columns and wall )

We diamond disc cut the full perimeter of the repair Zone area  
We break out the full extent of the area the concrete and remove all unsound concrete back to a sound substrate We to fully expose any reinforcement steel that's found and Mechanically clean to remove all surface corrosion, Once this has been completed We to then apply 1nr application of Sika 610 Reinforcement Primer this is to be applied to all previously cleaned exposed reinforcement steels

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We to provide and temporary fix timber shutter formwork and place into position as required ready to recast the corner sections of the defective concrete We to then apply 1nr application of Sika 610 Bonding Primer to The repair substrate area this is to be applied by brush application We to then apply by either hand application or trowel application the Sika 615 Concrete reinstatement mortar this is to be fully compacted into the repair shutter formwork float finish to a smooth surfaces We to leave to cure for 24hrs Once the repair mortar has cured, we to carefully remove all timber form work from the concrete areas and we to make good to any disturbed areas found

Once the above process has been completed, we then move onto the Corrosion management treatment application

#### Type 4 Repair ( Honeycombed areas of concrete All surfaces )

We diamond disc cut the full perimeter of the repair Zone area to maximum depth 10-15mm We carefully break out the full extent of the area the concrete and remove all unsound honeycombed concrete back to a sound substrate We to then apply 1nr application of Sika 610 Bonding Primer to the repair substrate area this is to be applied by brush application We to then apply by trowel application the Sika 615 Concrete reinstatement mortar this is to fully compacted into the repair zone area and float finished to a smooth and level surface

Once the above process has been completed, we then move onto the Corrosion management treatment application

#### Repair Type 5 ( Recasting to top section of concrete panels )

We break out all defective top section of all concrete panels and remove all unsound concrete back to a sound substrate we to fully expose any reinforcement steel that's found and mechanically clean to

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remove all Surface corrosion, once this has been completed, we to then apply 1 application of Sika 610 Reinforcement Primer this is to applied to all previously cleaned exposed reinforcement steels

If existing reinforcement steel is fully corroded and beyond treatment, we to then allow to supply and install new reinforcement this will include resin fixing new dowels and new lacing bars

We to provide fix timber shutter formwork and place into position to both sides of the panel areas ready to recast the corner sections of the defective concrete We to then apply 1nr application of Sika 610 Bonding Primer to the repair substrate area this is to be applied by brush application

We to then apply by trowel application the Sika 614 Micro Concrete Reinstatement mortar this is to fully compacted into the repair shutter formwork float finish to a smooth surfaces

We to leave to cure for 24hrs

Once the repair mortar has cured, we to carefully remove all timber form work from the concrete areas and we to make good to any disturbed areas found

Once the above process has been completed, we then move onto the Corrosion management treatment application

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Photos of all Repair Types....

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## Corrosion Management Works

Once all concrete surfaces have been repaired and completed  
We to then apply 3-4 nr applications of Sika Ferroguard 903  
Corrosion treatment

This is applied to the concrete surfaces by low pressure hand operated  
spray units Once the treatment has cured (Minimum 24hr) we to jet wash  
all pretreated concrete surfaces to remove all surplus residue  
We to then move onto surface leveling mortar works

## Surface leveling mortar application

On completion of all Corrosion Treatment works  
We to then carry out the application of the surfaces leveling mortar  
This is 1nr application Sika 620 Leveling Mortar  
This is applied to all concrete surfaces by trowel application to achieve  
a total thickness of 2-3mm  
Once this is applied to the concrete surfaces, we to then sponge finish  
to achieve a smooth surface on completion

## Protective Elastomeric Anti-carbonation Coating Treatment

This is the final treatment works to all Concrete surfaces  
We to apply 1nr application of Sika 552 W Primer this is to be applied by  
either brush or roller application  
Once the primer application has cured (Minimum 24hrs )  
We to then apply 2-3nr applications of Sika guard 550W  
This is to be by either brush or roller application

Once all above works are completed Sika will issue the relevant  
Warranties for the Concrete Protection

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I will also forward relevant costings for each item of works  
This concludes our report and proposed works for this project

If you have any further questions regarding our works, please feel free to  
contact me to discuss

Your Sincerely

Paul Griffiths  
Director

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