



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

UNIT1 • BELL INDUSTRIAL ESTATE • CUNNINGTON STREET • LONDON W4 5HB
TELEPHONE 020 8994 8860 FAX 020 8747 8469
Email: info@concreterestoration.co.uk Website: www.concreterestoration.co.uk
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VAT No. 538 9515 07

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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 Ferrogard 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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