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7th February 2020

Dear Colin

Seacombe Ferry Terminal, Wallasey - External Coating Works

Many thanks for the opportunity to provide our recommendations for the above project.

I am pleased to enclose our fully detailed specification for this project, which I hope gives you the information you require at present.

If you have any questions or require further information please let me know.

Yours sincerely

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Area Business Manager

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Seacombe Ferry Terminal, Wallasey - External Coating Works

Reference:

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Project Site Details

Address:

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Introduction

About Tor Coatings Limited

Tor Coatings is a UK manufacturer of specialist, high performance coatings. The Company dates back to 1975 and is now part of RPM Inc. Our group turnover is in excess of \$5Billion making it the world's largest supplier of specialist coatings.

Our tried and tested waterproofing systems are designed to offer excellent through life costings and deliver exceptional durability.

Project Details and Specification Objectives

We have been asked to provide our recommendations for the proposed recoating of the existing Plastisol coated vertical cladding panels at Seacombe Ferry Terminal, Victoria Place, Wallasey, Merseyside, CH44 6NR.

The existing factory-applied coatings are failing in isolated areas exposing the metal sheet below. The client is looking for a long-term, cost effective solution to protect the cladding panels.

The following areas are also included within the proposed Decoration works;

- Perimeter Cappings/Trims
- Window and Door Reveals

The following specification is for options for the TOR Unicover Ultra S 20 Year System.

This system is supported by the Tor Coatings 20 Year Single Point Guarantee , it is further supported with an independent 10 Year Insurance backed Guarantee via the Quality Assured National Warranties(QANW) at no additional cost to the client or contractor , all premiums will be paid for by Tor Coatings Limited.

The Tor systems are designed for refurbishing many types of architectural cladding systems, including: PVC Plastisols, PVF2, Silicone Polyester, powder coated or GRP sheets and trims.They are ideally suited for refurbishing and protecting weathered substrates on many types of building, such as:

- Retail units
- Warehouses and distribution centres
- Factories
- Schools and colleges
- Hospitals and care homes
- Garages

Vertical Cladding

The following specification is for the Unicovert Ultra S Coating System.

The Unicovert Ultra S System has been developed to solve the problems associated with the long-term waterproofing of mechanically sound pitched roof surfaces. They provide flexible, durable, long-lasting protection for up to 20 years before first full maintenance. These cold liquid applied systems are designed to encapsulate the roof to provide a completely joint-free and waterproof coating, which eliminates the risk of leaks.

The key benefits are:

- Cold liquid applied - no hot works
- Can be used over most pitched roof types
- Safe and easy to apply - unobtrusive repairs - allowing the building to remain in use during the work
- Tintable to BS/RAL/NCS Colours
- Up to 20 years' waterproof protection
- Quickly resistant to rainfall
- Flexible
- Joint free
- Excellent film strength
- UV stable
- Easy to maintain and excellent through life costings

When applied by a Tor Partner Contractor, the system comes with a Single Point Manufacturers' Warranty, along with a free-of-charge Insurance-backed Guarantee against Contractor Insolvency (subject to underwriters' conditions).

Essential Practices

If applying isocyanate containing coatings, it is imperative that correct health and safety measures are in place. 'HS 024 - The BCF Guide to the Safe Use of Coatings Containing Isocyanates' should be downloaded using the following link: www.coatings.org.uk/Media/Download.aspx?MediaId=2241

In all circumstances substrates MUST be clean and dry. It is recommended to thoroughly jet wash all surfaces prior to coating.

The site operatives must observe minimum and maximum overcoating times for each of the products being applied.

Ensure that any two part materials are isolated with their relevant hardener before mixing and application begins.

For all 2 pack products, thorough mixing of base and hardener must be carried out to produce a homogenous coating prior to application.

Part mixing of cans is not allowed

All liquids must be applied in accordance with the product technical datasheets.

If the maximum overcoating times for any material is exceeded then solvent wiping will be required. This must be carried out in a safe manner by carefully wetting a rag/cloth with the appropriate solvent (if in doubt consult with a Tor technical representative) and wiping the surface of the cured coating. Ensure solvent soaked rags are disposed of in the correct manner. Allow the surface to fully dry before overcoating.

When using Elastaseal Embedment Coat, Elastaseal Z Embedment Coat or Elastadeck Gritcoat, all must be fully reinforced with glass fibre matting extending into the termination detail. If reinforcement is missing, the system may split, particularly over mobile substrates such as bituminous felt and asphalt.

Generally, coatings should not be applied when the substrate temperature is less than 3°C above the dew point or if the relative humidity exceeds 85%. A dew point conversion chart is available upon request. For product specific minimum application temperatures, refer to the product technical datasheet.

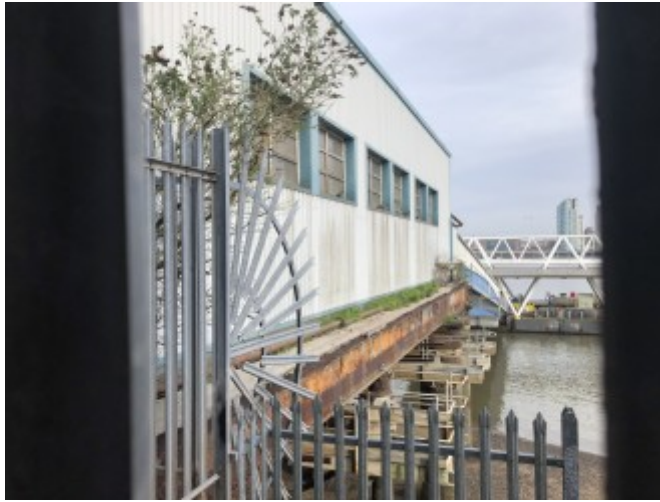
Weather Restrictions

Coating should not be carried out if the ambient temperatures are outside of specified range detailed on the product technical datasheet.

If a rain shower is experienced during coating application terminate application immediately and wait for the rain to stop. During the dry period immediately after rainfall, the substrate should be thoroughly dried out using suitable means such as a hot air blower prior to continuation of coating. Any wet coating that may have been damaged by rainfall must be made good by either physical removal or by over-coating when cured.

Although many solvent-based roof/cladding coatings require multiple hours to cure, a good degree of rain resistance can usually be expected within the first 60 minutes of coating. If unsure how to proceed after a rain shower, please consult with the coating manufacturer's technical department.

Site Survey Notes



are to be treated with the IM91100354 Tor Mordant solution ("T" wash) to pasivate all bright/shiny surfaces. All exposed metal is to be primed with the RC145 Elastaseal Z Metal Primer prior to the application of the proposed Unicover Ultra S System.

Overview of Existing Vertical Cladding

The existing elevations consist of factory coated profiled metal sheets which are showing signs of minor deterioration, with the existing coating failing to isolated areas exposing the metal sheet below. All existing cladding panels are to be thoroughly jet washed to remove all moss/vegetation, loose coatings and clean the existing sheets.

Any exposed galvanised sheets

Site Survey Notes



Delaminated Coatings to Cladding

Any areas of delaminated coatings are to be thoroughly jet washed to remove all loose coatings. All surface corrosion is to be removed prior and any exposed galvanised sheets are to be treated with the IM91100354 Tor Mordant solution ("T" wash) to pasivate all bright/shiny surfaces prior to the application of the RC145 Elastaseal Z Primer and proposed Unicover Ultra S System.

Site Survey Notes



Impact Damage/Fixing Holes

All existing fixing holes are to be suitably filled using a PU Sealant/Filler prior to being spot primed using the RC145 Elastaseal Z Metal Primer and overcoated with the proposed Unicover Ultra S System. Any severely impact damaged sheets are to be removed and replaced to match existing.

Site Survey Notes



Perimeter Cappings/Reveals

All perimeter cappings and window/door reveals are to be thoroughly jet washed to remove all moss/vegetation, loose coatings and clean the existing sheets. Any exposed galvanised sheets are to be treated with the IM91100354 Tor Mordant solution ("T" wash) to pasivate all bright/shiny surfaces. All exposed metal is to be primed with the RC145 Elastaseal Z Metal Primer

prior to the application of the proposed Unicover Ultra S System.

Seacombe Ferry Terminal, Wallasey - External Coating Works

Guidance Clauses for Vertical Cladding

Inspect cladding substrate to ensure suitability for coating.

Previously coated areas must be carefully inspected to ensure integrity and adhesion to the substrate.

Ensure by adhesion tests that the proposed coating system is fully compatible with existing surfaces.

Check building for visible structural defects which may adversely affect the stability of the structure.

All cladding surfaces to be treated should be sound, dry and free from contaminants.

Inspect all fittings and make good all defective areas (renew if necessary) prior to coating.

Inspect all old remedial repairs, patches, cracks, etc. Make good where necessary (remove unsound repairs) prior to coating.

Before work commences ensure all health and safety data sheets are read and understood.

Reinstate falls and/or re-site drainage points as appropriate.

Coverage rates of all materials will vary according to weather conditions, dimensions and nature/condition of substrates. Make appropriate allowances where applicable

On completion of all coating activity, dispose of all empty material cans, material contaminated tools, overalls and site waste in accordance with the relevant environmental regulations.

Completely clear site including scaffolding, etc.

All work should be carried out in a safe and tidy manner. Relevant Health & Safety/COSHH regulations should be observed at all times.

Inspection and Preparation of Plastisol and Similar Surfaces

It is important to thoroughly inspect all plastic coated metal profile surfaces to establish degree of corrosion, substrate and inter-coat adhesion, and overall condition. Test areas must be prepared to establish suitability for coating and whether a primer is required. Any existing factory coated or re-painted surfaces should also be checked for soundness and suitability for treatment.

Note should also be taken of any evidence/suspicion of reverse side corrosion on the upper sheets (often indicated by weeping rust stains), failed inter-sheet sealing strips, any other deterioration on and around the fixings (which may indicate perished sealing washers, bolt corrosion etc.), missing/deteriorated profile fillers, and other associated vulnerable areas/items, as any one or a combination of these aspects may limit the scope and effectiveness of any treatment if they cannot be fully rectified.

Scrape away any heavy or loose deposits of surface contamination, including suspect oil, grease or dirt. Thoroughly clean down all areas to be treated by high pressure water jetting or vigorous scrubbing a suitably diluted detergent cleaner (eg Torstrip WDA10). Thoroughly rinse down with clean water until all residues are removed and allow to dry. Plasticised PVC coatings should be thoroughly wiped with TH19 or TH99 solvent.

Slick surfaces or hard coatings (excluding PVDF) should be abraded and/or solvent wiped.

Inspect all fittings, i.e. trims, flashings, cappings, etc. Make good any damage or replace prior to coating.

Remove all loose, suspect and friable materials, cutting back to a sound firm edge. Prepare all surfaces to a clean, dry and sound condition to promote satisfactory adhesion, if necessary removing existing coatings and test patches.

Bright or unweathered galvanised surfaces should be pre-treated with Mordant T-Wash (IM 911). This is applied by brush or low pressure sprayer.

To cleaned and degreased surfaces, apply Tor Mordant T-Wash (IM911) at a coverage rate of approximately 0.1 litres/sqm, ensuring good surface contact.

Ensure surface conversion (blackening) then wash down to remove residues before applying priming coats/protective systems.

Localised corrosion should be removed by suitable mechanical means (grinding, abrasion, etc.) to ST3 standard and the adjacent areas prepared to a firm feathered edge. Spot prime as soon as possible with RC145 Elastaseal Z Metal Primer at a coverage rate of 0.2 litre/sqm. If the area previously abraded to ST3 has corroded since preparation, then further abrasion will be necessary to bring back up to ST3 standard prior to coating. Allow to dry overnight before applying further materials. If drying time exceeds 7 days, lightly abrade or solvent wipe surface before proceeding further. Particular attention should be paid to vulnerable areas such as bolt holes, edges and ends.

Badly corroded sheets should be removed and replaced with new (uncoated) sheets of similar profile.

Remove any unsound remedial repairs and make good. Replace broken and defective sheets as required.

The original factory applied coating should be checked for good adhesion to the metal profiled sheets. Remove if found to be suspect.

If a sound, firm edge is not achieved during preparation, loose coating may suffer a degree of edge curl if coated due to potential for solvent attack from the metal primer. If any loose material is observed, re-prepare by sanding and fully removing all loose coating prior to priming. If edge curl is experienced after coating, it will be assumed that preparation of the area was not carried out or was carried out inadequately.

Mechanically abrade any ferrous metal surfaces included in the coating schedule. Remove debris and apply spot prime with RC145 Elastaseal Metal Primer at a coverage rate of 0.2 litres/sqm.

Ensure that any vertical gaps or voids between sheet overlaps are as tight as is practical. Large gaps may require filling with a suitable elastomeric mastic gun sealant at the end of the treatment process if water ingress is a potential problem

Inspection & Preparation of Galvanised Steel Sheets

Inspect all surfaces to assess soundness and condition of existing substrates and coatings, and any test areas, to verify compatibility with the proposed coating system.

Note should also be taken of any evidence/suspicion of reverse side corrosion on the upper sheets (often indicated by weeping rust stains), failed inter-sheet sealing strips, any other deterioration on and around the fixings (which may indicate perished sealing washers, bolt corrosion etc.), missing/deteriorated profile fillers, and other associated vulnerable areas/items, as any one or a combination of these aspects may limit the scope and effectiveness of any treatment if they cannot be fully rectified.

Clean down all areas to be treated. Remove all salts, oxidation, rust, dirt and debris from the roof. Inspect all substrates and previous coatings for soundness and suitability for treatment.

All areas of suspected grease, fat or oil contamination must be thoroughly cleaned with Tor TH19 Degreasing Solution or other suitable cleaner (eg Torstrip WDA10) and all residues removed.

Bright or unweathered galvanised surfaces should be pre-treated with Mordant T-Wash (IM 911). This is applied by brush or low pressure sprayer.

To cleaned and degreased surfaces, apply Tor Mordant T-Wash (IM911) at a coverage rate of approximately 0.1 litres/sqm, ensuring good surface contact.

Ensure surface conversion (blackening) then wash down to remove residues before applying priming coats/protective systems.

Inspect all roof fittings, i.e. trims, flashings, cappings, etc. Make good any damage or replace prior to coating.

Remove all loose, suspect and friable materials, cutting back to a sound firm edge. Prepare all surfaces to a clean, dry and sound condition to promote satisfactory adhesion, if necessary removing existing coatings and test patches.

Badly corroded sheets to be removed and replaced with new sheets of similar profile.

Remove any unsound remedial repairs and make good or replace broken and defective sheets as required.

Localised corrosion should be removed by suitable mechanical means (grinding, abrasion, etc.) to ST3 standard and the adjacent areas prepared to a firm feathered edge. Spot prime as soon as possible with RC145 Elastaseal Z Metal Primer at a coverage rate of 0.2 litre/sqm. If the area previously abraded to ST3 has corroded since preparation, then further abrasion will be necessary to bring back up to ST3 standard prior to coating. Allow to dry overnight before applying further materials. If drying time exceeds 7 days, lightly abrade or solvent wipe surface before proceeding further. Particular attention should be paid to vulnerable areas such as bolt holes, edges and ends.

Inject expanding polyurethane foam into any large gaps or voids between sheet

overlaps. Allow to cure and trim exposed material.

Inspection and Preparation of Steel

Inspect all surfaces to assess soundness and condition of existing substrates and coatings, and any test areas, to verify compatibility with the proposed coating system.

Where corrosion resistance is part of the performance expectation, suitable means and levels of preparation are required. All corrosion must be removed in order for any performance to be delivered on site.

Clean down all areas to be treated. Remove all salts, oxidation, rust, dirt and debris from the roof. Inspect all substrates and previous coatings for soundness and suitability for treatment.

All areas of suspected grease, fat or oil contamination must be thoroughly cleaned with Tor TH19 Degreasing Solution or other suitable cleaner (eg Torstrip WDA10) and all residues removed.

All heavy corrosion must be chipped away then level of preparation is

ST3 - Very thorough scraping and wire brushing, machine brushing, grinding etc. After removal of dust, surface shall have a pronounced metallic sheen - Primers for this level of preparation are Tor Surface Tolerant Epoxy Primer (EP118) or Elastaseal Z Metallic Primer (RC145) if a low odour primer is required.

Primers MUST be applied within 4 hours of the preparation to avoid flash rusting.

All edges, bolts and sharp details will require 2 full coats of primer.

Spot prime as soon as possible with RC145 Elastaseal Z Metal Primer at a coverage rate of 0.2 litre/sqm. If the area previously abraded to ST3 has corroded since preparation, then further abrasion will be necessary to bring back up to ST3 standard prior to coating. Allow to dry overnight before applying further materials. If drying time exceeds 7 days, lightly abrade or solvent wipe surface before proceeding further. Particular attention should be paid to vulnerable areas such as bolt holes, edges and ends.

Priming with Elastaseal Z Metal Primer

THIS IS A TWO PACK PRIMER - ENSURE THAT BASE AND HARDENER ARE FULLY MIXED BEFORE USE.

Apply one coat of Elastaseal Z Metallic Primer (RC145) at a maximum coverage rate of 0.2 litres/sqm (allow for extra material on irregular surfaces).

Allow to dry overnight before applying further materials. If drying time exceeds 28 days, lightly abrade or solvent wipe surface before proceeding further.

Unicover Ultra S - 20 Year

Apply three overall coats of Unicover Ultra S (RC402) using contrasting shades at a coverage rate of 10 square metres per litre per coat, allowing 8-48 hours drying between coats.

Ensure good even application of materials, paying particular attention to profile angles, edges, boltheads and protrusions.

Allow finishing coat to dry overnight, then carefully inspect to identify any misses or low thickness areas and touch-in.

Certain vibrant coloured finishes may require an extra coat to ensure satisfactory opacity.



The scale to deliver

We've been in business for four decades, and are part of RPM International, one of the world's largest protective coatings groups. Our customers know we have the resources and technology to support them, and that we'll be there for many decades to come.

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