

Rev	Date	Info - revised items in <b>RED</b>
T1	13.11.20	Tender Issue
T2	08.02.21	External timber treatment added

## M60 PAINTING/CLEAR FINISHING

To be read with Preliminaries/General conditions.  
For colours see Wall Finishes Drawings

### COATING SYSTEMS

- 110 EMULSION PAINT: ON PLASTERBOARD. Classrooms, Specialist Rooms, Group rooms, WCs, Hygiene Rooms, changing rooms (above tiling level),
- Manufacturer: Dulux.
  - Product reference: Diamond Matt
  - Surface(s): Gypsum plasterboard.
  - Preparation: As clause 400.  
Gyproc dry wall primer to plasterboard.
  - Initial coat(s): Mist coat of Diamond Matt
  - Finishing coats: 2 top coats of Diamond Matt.
- For colours see Wall Finishes Drawings
- 111 PAINT TO NEW PLASTER.
- Manufacturer: Dulux.
  - Product reference: Diamond Matt
  - Surface: Gypsum plaster.
  - Preparation: As clause 400.
  - Initial coat(s): Mist coat of Diamond Matt
  - Finishing coats: 2 top coats of Diamond Matt.
- 130 PAINT TO METALWORK IN BLOCK B INCLUDING COLUMNS AND LATTICE BEAMS
- Manufacturer: Dulux
  - Colour: RAL1016 (yellow)
  - Surface(s): Existing steel structure
  - Preparation: As clause 400. degrease as necessary
  - Initial coat(s): 2 coats dulux metal primer
  - Finishing coat(s): 2 coats dulux trade eggshell at 30 um dft per coat. Applied with airless spray
- 131 PAINT TO PROFILED METAL SOFFIT IN BLOCK B CLASSROOMS
- Manufacturer: Dulux
  - Colour: RAL9010 (white)
  - Surface(s): Existing profiled metal deck
  - Preparation: As clause 400. degrease as necessary
  - Initial coat(s): 2 coats dulux metal primer

- Finishing coat(s): 2 coats dulux trade eggshell at 30 um dft per coat. Applied with airless spray
- 131 PAINT TO EXISTING AND NEW METAL RAILINGS AND CANOPY SUPPORT
- Manufacturer: Dulux
  - Colour: RAL7047
  - Surface(s): Existing metalwork  
Preparation: As clause 400. degrease as necessary
  - Initial coat(s): 1 coat dulux metal primer  
Dulux Trade Metalshield Gloss is specially formulated for metal with a quick drying formulation that can be overcoated within 4-8 hours. It provides lasting protection against corrosion on ferrous and non-ferrous metal substrates such as railings, garage doors, lift shafts, staircases and emergency exit routes. \*Applying our straightforward, single-pack system: an appropriate Metalshield primer from Dulux Trade + 2 coats of Metalshield Gloss from Dulux Trade will deliver up to 8 years metal protection.
- 150 EGGSHELL PAINT: TO NEW INTERNAL TIMBER/MDF.
- Manufacturer: Dulux
  - Product reference: Diamond Eggshell Paint
  - Surface(s): Existing and new Softwood/MDF.  
Preparation: As clause 400.  
New woodwork to be painted is to be rubbed down with sandpaper, knots covered with shellac knotting. Surfaces stopped with suitable stopping as required, rubbed down and cleaned out.
  - Initial coat(s): Seal new or bare surfaces with a thinned first coat of Dulux Trade Diamond Eggshell (up to 1 part clean water to 10 parts paint). The normal finishing process is 2 full coats of Dulux Trade Diamond Eggshell, however for significant colour change additional coats may be required.
- 155 PAINT ON PLASTERBOARD: SATIN / SILK FINISH  
CIRCULATION AND CORRIDORS
- Manufacturer: Dulux
  - Product reference: Vinyl Softsheen
  - Surface(s): Gypsum plasterboard.  
Preparation: As clause 400.
  - Gyproc dry wall primer to plasterboard manufacturer recommendations
  - Initial coat(s): Seal new or bare surfaces with a thinned first coat of Dulux Trade Vinyl Soft Sheen (up to 1 part clean water to 5 parts paint). The normal finishing process is 2 full coats of Dulux Trade Vinyl Soft Sheen, but on previously painted surfaces in good condition, where similar colours are used, 1 coat may be sufficient.
- 160 CLEAR LACQUER FINISH TO INTERNAL TIMBER FURNITURE ITEMS
- Manufacturer: Cementone Beaver, Bonakemi matt lacquer
  - Surface(s): New Timber/MDF  
Preparation: As clause 400.
  - Initial coat(s): Fine short haired roller or spray applied.
  - Finishing coats: Fine short haired roller or spray applied.
  - Rub down between coats to achieve fine smooth finish.

### 165 FIRE RETARDANT TREATMENT FINISH TO EXISTING INTERNAL TIMBER CEILINGS

- Manufacturer: Envirograf or equal approved.  
QVFR System For Internal  
Q/VFR system is a two coat system that is used for internal use only. Q/VFR comes in two colours clear or coloured Giving class 0 and class 1 EU SBI/B/s1/d0 and also 20 minutes fire protection.
- Surface(s): Existing stained timber (pine)  
Preparation: As clause 400.
- Initial coat(s): Refer to manufacturers spec.
- Finishing coats: Refer to manufacturers spec.
- Rub down between coats to achieve fine smooth finish.
- Finish: Satin
- Colour: Clear
- Class C-s3,d2 surface spread of flame rating required to walls and ceilings in rooms.
  
- Class B-s3, surface spread of flame requirements to walls and ceilings in the circulation spaces. In both cases this requirement is satisfied by the product in this clause.
  
- Recording and self certifying the application of the product.  
The Contractor is to complete a record of the amount of material used, per day, per room. This is in order to provide evidence of the process and the correct amount of retardent being used. This record is to be passed to Building Control and the Client at completion of the work.

### 167 EXTERNAL CLADDING: FIRE RESISTING TREATMENT PRIOR TO STAIN

- Manufacturer: Rawlins  
[www.rawlinspaints.com](http://www.rawlinspaints.com)  
Flameproof Timbertreat  
Colour: Clear microporous treatment
- Surface(s): New timber  
Preparation: As clause 30.
- Initial coat(s): Refer to manufacturers instructions.
- Finishing coats: 2 full coats  
The external wall surfaces should provide the following fire resistance according to ADB2 Table 12.1:  
Less than 1m from boundary: class B-s3, d2(2) or better  
Greater than 1m from boundary: class C-s3, d2(3) or better

### 170 EXTERNAL CLADDING STAIN

- Manufacturer: OSMO  
<https://osmouk.com/>  
WR Base coat.  
Colour: 4001 Clear  
Natural Oil Woodstain  
Colour: TBC to match existing. 708 Teak / 727 Rosewood / 907 Quartz Grey
- Surface(s): External timber

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Preparation: Refer to manufacturers instructions. Use on dry, clean and frost free wood surfaces (moisture content max.20%). Stir well before use. Old paints and lacquers must be completely removed. Do not apply in damp conditions or if rain is imminent.

- Initial coat(s): 2-3 coats OSMO Base Coat. 160ml/m2. Refer to manufacturer instructions. Allow approx 12 hours drying time.
- Finishing coats: Refer to manufacturers instructions. Apply 1 coat, allow 4-6 hours to dry before applying second coat.

### 180 FLOOR COATING TO MAIN HALL WOODBLOCK

- Manufacturer: OSMO .
  - Product reference: Polyx Oil Original Finish 3032 Satin.
- Surfaces: Existing Woodblock (possibly Deal) .
  - Preparation: Ensure all blocks are secure and relay any loose blocks with a suitable adhesive . Sand the entire floor according to the instructions in OSMO 'Wood Finishes Knowledge and Advice' publication.
- Initial coats: \_\_\_\_\_ .
  - Number of coats:
    1. First coat on the raw, sanded wood approx. 35 ml/m2.
    2. Mistakes in the wet coating can be corrected up to 15 minutes after the first application.
    3. Drying time approx. 4 - 5 hours (normal climatic conditions, 23 °C/50 % rel. humidity). Lower temperatures and/or higher humidity can increase drying time. Allow for good ventilation.
    4. If desired, the dried finish can be smoothed with fine grain sandpaper (P400) or with a scouring pad before applying the second coat.
    5. Second coat approx. 35 ml/m2.
    6. Drying time approx. 4 - 5 hours; see point 3.

### 190 PAINT REMOVAL SOLUTION FOR EXTERNAL BRICKWORK THAT HAS BEEN OVERPAINTED

- Supplier: Rawlins or equal approved
- Product: Thermoguard ThermoStrip PRO  
Thermoguard ThermoStrip PRO is a water-based, low odour gel for professional and DIY use. Refer to manufacturers instructions and test an area out of sight before proceeding.

### 195 SPECIAL COATING OVERPAINTING OF PLASTISOL TYPE FINISH TO EXISTING ALUMINIUM COMPOSITE PANELS IN CURTAIN WALLING, INTERNAL AND EXTERNAL DOORS AND SCREENS

- Supplier: Rawlins or equal approved
- Manufacturer: TOR .
- Product reference: Tor Unicover S
- Reference RC305  
Tor Unicover S (RC305) has been developed for the fast and cost effective refurbishment of architectural cladding. In many cases the system can be applied in 1 coat. It allows re-colouring for corporate re-branding or change of ownership or simply extends the life cycle of the cladding. A high build protective finish for the renovation of factory coated profile metal vertical cladding panels.
- One or two coat system\*
- Durable 10 year system

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- Brush or spray applied .
- Colour: RAL 9010 (white)
- Surface Preparation  
Important: Inspect all elevations of the building - condition of (say) North and South facing cladding may differ considerably.  
Ensure surfaces are sound, clean and dry before coating, and any existing coatings are sufficiently resilient for overcoating. Remove surface contaminants by detergent scrubbing or high pressure power washing. Remove any moss, lichen, algae etc using Torkill W Fungicidal Solution (DM405). Ensure any existing coatings are adhering firmly to the substrate. Remove any residual chalking (if present) by vigorous rubbing etc with a fine scouring pad (eg. "Scotchbrite), and any other surface leachates or residues (particularly on plasticised PVC coatings) by either vigorous wiping with Tor Standard Urethane Thinners (TH99) or vigorous scrubbing with strong alkali detergent (eg. Torstrip WDA10 Wash Down Agent (SS4200005)) followed by thorough rinsing. Note: Abrasion of PVDF coatings (other than around loose or corroded areas) with fine hard abrasives should be avoided as this may polish the surface and impair adhesion of subsequent coatings - white aluminium oxide (80 mesh or coarser) or other suitable hard sharp mineral abrasive paper recommended to 'cut' and roughen coatings.  
Scrape back any loose or weakly bonded materials and prepare to a firm feathered edge, and abrade exposed metal to remove corrosion products and provide a mechanical "key". Spot prime all bare metal areas with Tor Elastaseal Z Metal Primer (RC145) as appropriate. Stripe coat vulnerable areas (drip edges, exposed boltheads, panel edges etc) with Tor Elastaseal Fibretex (RC104) and leave overnight before applying main coat.
- Samples: Sample a panel at the rear of Block B for testing system.

### GENERALLY

- 210 COATING MATERIALS to be obtained from one only of the following manufacturers unless specified otherwise: Inform CA of selected manufacturer at an early date.  
ICI - Dulux.  
Akzo Nobel- Crown

### PREPARATION

- 215 HANDLING AND STORAGE
- Coating materials: Deliver in sealed containers, labelled clearly with brand name, type of material and manufacturer's batch number.
  - Materials from more than one batch: Store separately. Allocate to distinct parts or areas of the work.
- 220 COMPATIBILITY
- Coating materials selected by contractor:
  - Recommended by their manufacturers for the particular surface and conditions of exposure.
  - Compatible with each other.
  - Compatible with and not inhibiting performance of preservative/ fire retardant pretreatments.
- 240 SURFACES NOT TO BE COATED
- Exposed concrete columns and soffits, unless indicated otherwise.  
New soffit mounted services trunking and conduit, unless indicated otherwise.

280 PROTECTION

- 'Wet paint' signs and barriers: Provide where necessary to protect other operatives and general public, and to prevent damage to freshly applied coatings.

300 CONTROL SAMPLES

- Sample areas of finished work: Carry out, including preparation, as follows:  
Types of coating Nature of sample  
M60/TBC
- Approval of appearance: Obtain before commencement of general coating work.

320 INSPECTION BY COATING MANUFACTURERS

- General: Permit manufacturers to inspect work in progress and take samples of their materials from site if requested.

**PREPARATION**

400 PREPARATION GENERALLY

- Standard: To BS 6150, Section 4.
- Preparation materials: Types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
- Substrates: Sufficiently dry in depth to suit coating.
- Efflorescence salts: Remove.
- Dirt, grease and oil: Remove. Give notice if contamination of surfaces/ substrates has occurred.
- Surface irregularities: Abrade to a smooth finish.
- Joints, cracks, holes and other depressions: Fill with stoppers/ fillers. Work well in and finish off flush with surface. Abrade to a smooth finish.
- Dust, particles and residues from abrasion: Remove.
- Water based stoppers and fillers:
  - Apply before priming unless recommended otherwise by manufacturer.
  - If applied after priming: Patch prime.
- Oil based stoppers and fillers: Apply after priming.
- Doors, opening windows and other moving parts:
  - Ease, if necessary, before coating.
  - Prime resulting bare areas.

425 IRONMONGERY

- Removal: Before commencing work remove ironmongery from surfaces to be coated.
- Hinges: Do not remove
- Replacement: Refurbish as necessary; refit when coating is dry

481 UNCOATED WOOD

- General: Abrade to a smooth, even finish with arrises and moulding edges lightly rounded or eased.
- Heads of fasteners: Countersink sufficient to hold stoppers/ fillers.
- Resinous areas and knots: Apply two coats of knotting.

500 PREPRIMED STEEL

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- Areas of defective primer, corrosion and loose scale: Abrade back to bare metal. Reprime as soon as possible.
- 511 GALVANIZED, SHERARDIZED AND ELECTROPLATED STEEL
  - White rust: Remove.
  - Pretreatment: Apply one of the following:
    - 'T wash'/ mordant solution to blacken whole surface.
    - Etching primer recommended by coating system manufacturer.
- 531 UNCOATED STEEL - BLAST CLEANING
  - Oil and grease: Remove.
  - Blast cleaning:
    - Atmospheric conditions: Dry.
    - Abrasive: Suitable type and size, free from fines, moisture and oil.
    - Surface finish: To BS EN ISO 8501-1, preparation grade SA 2 1/2
  - Primer: Apply as soon as possible and within four hours of blast cleaning.
- 560 UNCOATED CONCRETE
  - Release agents: Remove.
- 570 UNCOATED MASONRY/ RENDERING
  - Loose and flaking material: remove.
- 580 UNCOATED PLASTER
  - Nibs, trowel marks and plaster splashes: Scrape off.
  - Overtrowelled 'polished' areas: Abrade lightly.
- 590 UNCOATED PLASTERBOARD
  - Depressions around fixings: Fill with stopper/ filler.
- 622 ORGANIC GROWTHS
  - Dead and loose growths and infected coatings: Scrape off and remove from site.
  - Treatment biocide: Apply appropriate solution to growth areas and surrounding surfaces.
  - Residual effect biocide: Apply appropriate solution to inhibit re-establishment of growths.
- 645 SEALING OF INTERNAL MOVEMENT JOINTS
  - General: To junctions of walls and ceilings with architraves, skirtings and other trims.
  - Sealant: Water based acrylic.
    - Manufacturer: GEOCEL
    - Product reference: Painter's Mate
  - Preparation and application: As section Z22.

### APPLICATION

- 711 COATING GENERALLY
  - Application standard: To BS 6150, Section 5.
  - Conditions: Maintain suitable temperature, humidity and air quality during application and drying.
  - Surfaces: Clean and dry at time of application.
  - Thinning and intermixing of coatings: Not permitted unless recommended by manufacturer.

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## Painting/Clear finishing

Rev T2

- Overpainting: Do not paint over intumescent strips or silicone mastics.
  - Priming coats:
    - Thickness: To suit surface porosity.
    - Application: As soon as possible on same day as preparation is completed.
  - Finish:
    - Even, smooth and of uniform colour.
    - Free from brush marks, sags, runs and other defects.
    - Cut in neatly.
- 720 PRIMING JOINERY
- Preservative treated timber: Retreat cut surfaces with two flood coats of a suitable preservative before priming.
  - End grain: Coat liberally allow to soak in, and recoat.
- 730 WORKSHOP COATING OF CONCEALED JOINERY SURFACES
- General: Apply coatings to all surfaces of components.
- 740 CONCEALED METAL SURFACES
- General: Apply additional coatings to surfaces that will be concealed when component is fixed in place.
    - Components: Concealed metal framing in exposed locations
    - Additional coatings: As recommended by coating manufacturer
- 751 STAINING WOOD
- Primer: Apply, if recommended by stain manufacturer.
  - Application: Apply in flowing coats and brush out excess stain to produce uniform appearance.
- 760 VARNISHING WOOD
- First coat:
    - Thin with white spirit.
    - Brush well in and lay off avoiding aeration.
  - Subsequent coats: Rub down lightly along the grain between coats.
- 770 EXTERNAL DOORS
- Bottom edges: Prime and coat before hanging doors.
- 780 BEAD GLAZING TO COATED WOOD
- Before glazing: Apply first two coats to rebates and beads.
- 800 GLAZING
- Etched, sand blasted and ground glass: Treat or mask edges before coating to protect from contamination by oily constituents of coating materials.
- 810 WATER REPELLENT
- Application: Liberally flood surface, giving complete and even coverage.