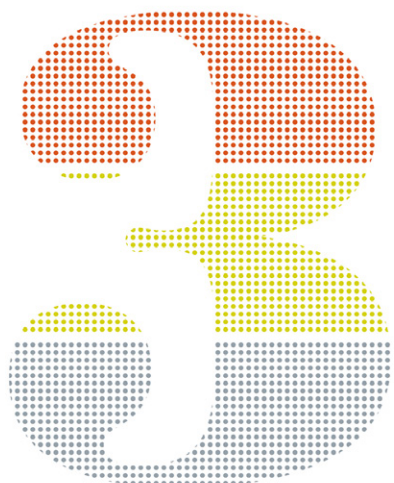




Lower Campfield, Manchester
Lower Byrom Street, M3 4FP



Listed Building Consent Application Conditions
Condition 13

Listed Building Consent Application Condition 13

13) Prior to the commencement of any works to install new flooring and finishes to the walls a floor and finishes strategy shall be submitted for approval in writing by the City Council, as Local Planning Authority.

The shall then be carried out in accordance with this method statement and specification as part of the development and be completed within a time scale to be agreed in writing by the City Council, as Local Planning Authority.

Reason - To ensure that a satisfactory interventions into the Listed Building and retention/repair of as much of the Listed fabric as possible along with appropriate use of materials in the restoration of the Listed Buildings pursuant to policy EN3 of the Manchester Core Strategy (2012) and extant policy DC19 of the Unitary Development Plan for the City of Manchester (1995) and the NPPF/NPPG.

Attatched information to satisfy LBC Condition 13

01 - PDF - LC-FF-00_Ground Floor Floor Finishes Rev.C2 - 29/07/24

02 - PDF - LC-FF-M_Mezzanine Floor Floor Finishes Rev.C2 - 29/07/24

03 - PDF - LC-SK-19_Carpet Finishes Mezzanine Level Rev.B - 20/01/25

04 - PDF - LC_sF-4_23-071_Finishes Schedule 4 of 14 Rev.C3 - 23/08/24

05 - PDF - LC_sF-5_23-071_Finishes Schedule 5 of 14 Rev.C3 - 23/08/24

07 - PDF - LC_sF-7_23-071_Finishes Schedule 7 of 14 Rev.C3 - 23/08/24

08 - PDF - LC_sF-8_23-071_Finishes Schedule 8 of 14 Rev.C3 - 23/08/24

09 - PDF - LC_sF-9_23-071_Finishes Schedule 9 of 14 Rev.C3 - 23/08/24

10 - PDF - 23-071-LC-Internal Paintwork-Ref - 07/05/24

11 - PDF - dt_gb_en_satinwood_medium_base - 26/01/24

12 - PDF - DT406 - Satinwood.Docx - N/A

Drawing to be printed in colour



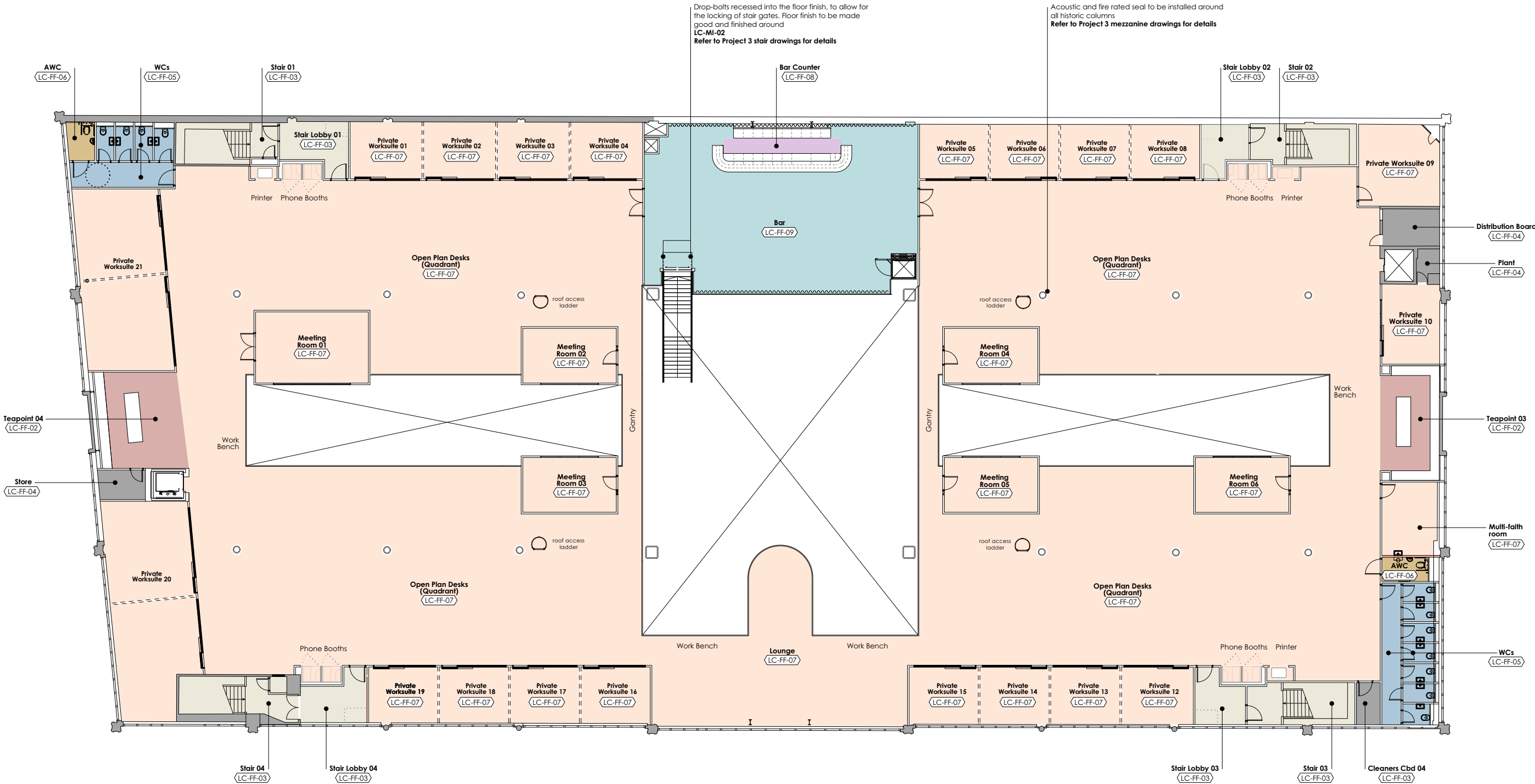
Base plates to new columns will be visible where there is no applied floor finish. Shown here indicatively. Base plates will be recessed into the existing slab, flush with the FFL. Slab to be made good and finished around the plates
Base plates required to all new columns, only the visible ones are shown on this drawing. Size shown indicatively LC-MI-13
Refer to Structural Engineers proposals

Cable tray recessed into existing slab to provide small power to The Street and Event Space
LC-MI-10
Refer to MEP Engineers proposals

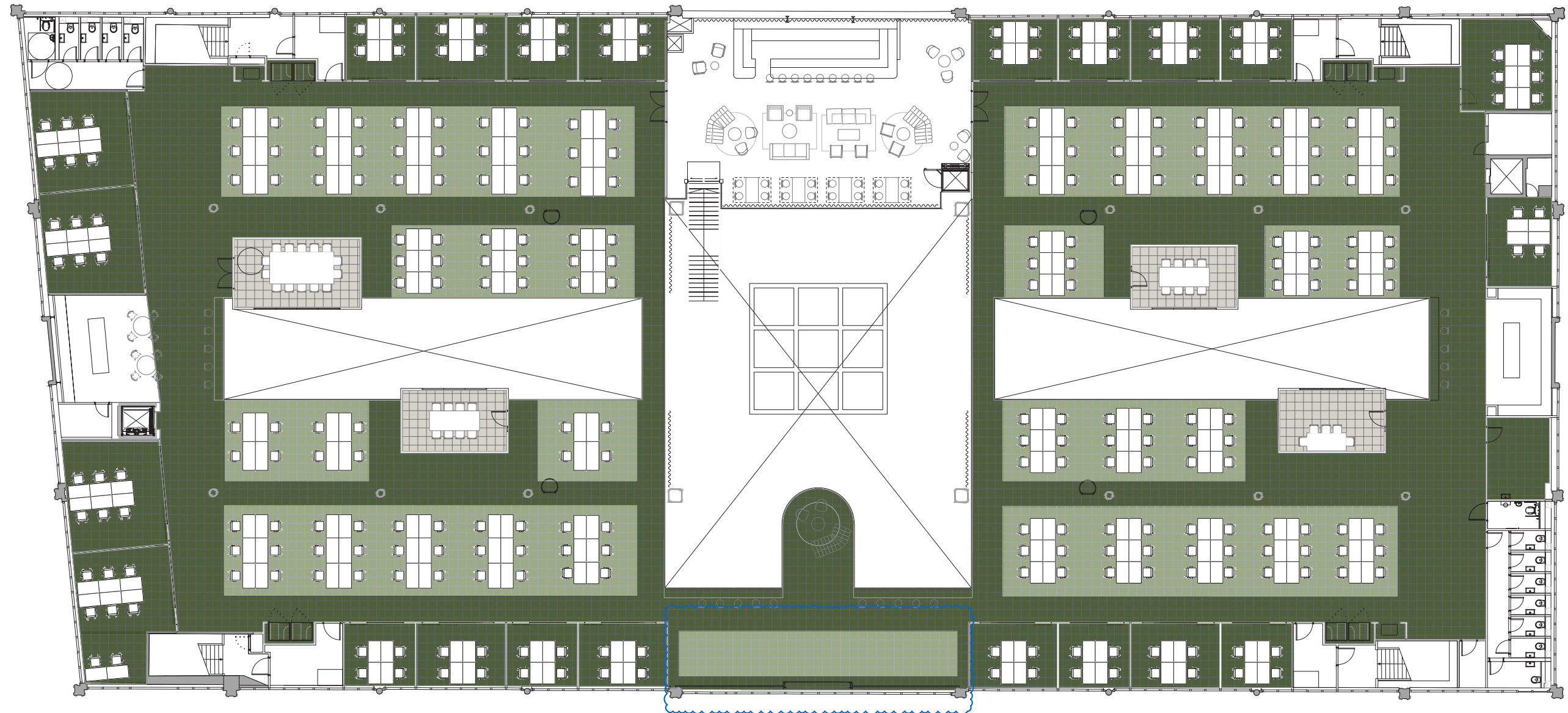


 Studio Hart Limited 7-8 Savile Row, London, W1 SPE	DRAWING GROUND FLOOR FLOOR FINISHES		DRAWING KEY: LC-FF-01 - Existing Concrete Remove existing finishes, level, polish, and apply sealant LC-FF-02 - Vinyl Colour A Kitchenettes/Prep Kitchen, non-slip vinyl flooring LC-FF-03 - Existing Finish Cleaned and made good. LC-FF-04 - Vinyl Colour B BOH, non-slip vinyl flooring LC-FF-05 - Porcelain Floor Tile With appropriate slip rating LC-FF-06 - Porcelain Floor Tile With appropriate slip rating LC-FF-07 - Carpet Tile									General Notes: All dimensions to be checked on site prior to commencement of any works, and/or preparation of any shop drawings. Sizes of and dimensions to any structural elements are indicative only. See structural engineers drawings for actual sizes / dimensions. This drawing to be read in conjunction with all other Architect's drawings, specifications and other Consultants' information. All proprietary systems shown on this drawing are to be installed strictly in accordance with the Manufacturers/Suppliers recommended details. Any discrepancies between information shown on this drawing and any other contract information or manufacturers/suppliers recommendations is to be brought to the attention of the Architect.	
	SCALE 1:250 at A3	PROJECT NUMBER 23-071											
	DATE Nov 2023	DRAWING STATUS Construction								C2	Stage 3+ Construction Stage 3+ information to be developed by the contractor/subcontractors for construction. Subject to any VE or contract admissions / omissions undertaken by the client	29/07/24	
	DWG No. LC-FF-00	REVISION C2								C1	Stage 3+ Construction Stage 3+ information to be developed by the contractor/subcontractors for construction. Subject to any VE or contract admissions / omissions undertaken by the client	02/05/24	
PROJECT Lower Campfield			LC-FF-08 - Vinyl Colour C FOH, non-slip vinyl flooring LC-FF-09 - Polished Concrete LC-FF-10 - Recessed Entrance Matting LC-FF-11 - Existing Stair Treatment to Treads/Risers LC-MI-08 - Floor Channels for Futureproofing Partitions Refer to Structural Engineers proposals LC-MI-10 - Cable Tray Recessed into Existing Slab Refer to MEP Engineers proposals LC-MI-13 - Base Plate to New Columns Refer to Structural Engineers proposals							T1	Stage 3+ Tender Issue	30/11/23	
									STATUS	REVISION	DATE	DO NOT SCALE FROM THIS DRAWING.	

Drawing to be printed in colour



Studio Hart Limited 7-8 Savile Row, London, W1 SPE PROJECT Lower Campfield	DRAWING MEZZANINE FLOOR FINISHES		DRAWING KEY: LC-FF-01 - Existing Concrete Remove existing finishes, level, polish, and apply sealant LC-FF-02 - Vinyl Colour A Kitchenettes/Prep Kitchen, non-slip vinyl flooring LC-FF-03 - Existing Finish Cleaned and made good. LC-FF-04 - Vinyl Colour B BOH, non-slip vinyl flooring LC-FF-05 - Porcelain Floor Tile LC-FF-06 - Porcelain Floor Tile With appropriate slip rating LC-FF-07 - Carpet Tile LC-FF-08 - Vinyl Colour C FOH, non-slip vinyl flooring LC-FF-09 - Polished Concrete LC-FF-10 - Recessed Entrance Matting LC-FF-11 - Existing Stair Treatment to Treads/Risers LC-MI-08 - Floor Channels for Futureproofing Partitions Refer to Structural Engineers proposals LC-MI-10 - Cable Tray Recessed into Existing Slab Refer to MEP Engineers proposals LC-MI-13 - Base Plate to New Columns Refer to Structural Engineers proposals																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</
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Note:
Drawing is for quantities and specification only, setting out drawing to be provided by Hart.



Studio Hart Limited
7-8 Savile Row
London, W1 SPE

Sketch: LC-SK-19 -REV B
Carpet finishes Mezzanine Level

20th January 2025
1:250 at A3

PROJECT

Lower Campfield

DRAWING KEY



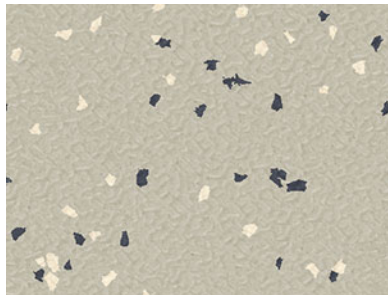
Checker carpet-rug
No cut tiles.
Spec:Interface Employ Loop
50/50 mix of
Fern 4197034 & Eden 4197018,
as shown in thumb nail image
Size: 500x500mm



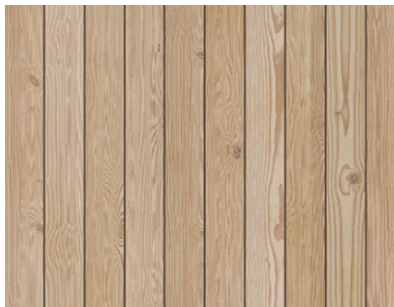
Circulation space &
perimeter room carpet.
Cut tiles permitted.
Spec:Ege Epoca Classic
Dusty Green 078235748
Size 480x480mm

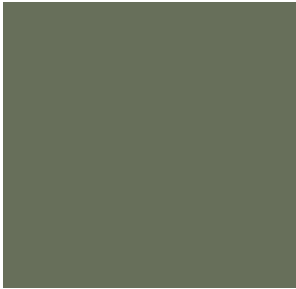
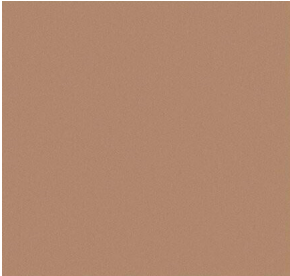


Meeting pod carpet
Cut tiles permitted.
Spec:Ege Epoca Classic
Light grey beige 078272548
Size 480x480mm

Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes								
CF-12	Prep Kitchen		Ceiling tiles	Paint finish, white	Hygiene Suspended Ceiling Tiles, clipped to the Corrosive Resistant 24mm Grid	Zentia	Preparation & application: In accordance with manufacturers recommendation Allow for all accessories required to complete the installation Fire Rating: All surface linings to walls and ceilings are to comply with the requirements set out in the below table. Please refer to the Approved Inspectors Compliance Report for full details. Approved Document Part B2 - Classification of Linings <table><tr><td>Location</td><td>European Class</td></tr><tr><td>Small rooms of area not more than 30m² in non-residential accommodation</td><td>D-s3, d2</td></tr><tr><td>Other rooms</td><td>C-s3, d2</td></tr><tr><td>Circulation Spaces</td><td>B-s3, d2</td></tr></table>	Location	European Class	Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2	Other rooms	C-s3, d2	Circulation Spaces	B-s3, d2
Location	European Class														
Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2														
Other rooms	C-s3, d2														
Circulation Spaces	B-s3, d2														
FLOOR FINISHES															
FF-01	Various	 Photo shows existing condition	Existing concrete slab Remove existing finishes, level the slab where required and apply a clear, matte sealant which provides the necessary slip rating and moisture resistance	N/A	N/A	N/A	Method, scope and products are all to specialist subcontractors recommendations. Proposals to be reviewed and approved by client/architect before commencement on site and/or ordering of products Sample: Area of 2 sq.m. is required for review and approval by the client - sample to capture the full proposed treatment and final finish								
FF-02	Teapoints	 Colour in image is indicative, colour tbc	Vinyl - Colour A	6601 Reflection Breaking Surface	Stone	Noraplan	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations Notes for areas where the finish is installed on the existing concrete slab; - If required (due to the moisture levels of the slab) a moisture control product/system must be installed to prevent moisture penetrating or damaging the floor finish. - Self levelling screed is to be installed								
FF-03	Stairs		Existing finish to be cleaned and made good	N/A	N/A	N/A	To specialist subcontractors recommendations								
FF-04	BOH Areas / Prep kitchen		Slip resistant vinyl - Colour B	Abyss K3001	Stronghold 30	Altro	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations Notes for areas where the finish is installed on the existing concrete slab; - If required (due to the moisture levels of the slab) a moisture control product/system must be installed to prevent moisture penetrating or damaging the floor finish. - Self levelling screed is to be installed								

Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
FF-05	WCs / WC Lobbies	 Colour in image is indicative, colour tbc	Floor tiles Unglazed Dimension: 100x100mm	Carbonio, ATCUN106, Matt R10 Grout colour tbc - contractor to allow for a non-standard grout colour Mastic colour tbc - contractor to allow for non-standard mastic colour, to closely match tile colour	London Unglazed	Architile	Or acceptable alternative, client to approve Setting out to align with wall tiles Substrate, preparation & installation: In accordance with manufacturers recommendations Slip rating to comply with all relevant building regulations Notes for areas where the finish is installed on the existing concrete slab; - If required (due to the moisture levels of the slab) a moisture control product/system must be installed to prevent moisture penetrating or damaging the floor finish. - Self levelling screed is to be installed
FF-06	Accessible WC / Showers	 Colour in image is indicative, colour tbc	Floor tiles Unglazed Dimension: 100x100mm	Carbonio, ATCUN106, Matt R10 Grout colour tbc - contractor to allow for a non-standard grout colour Mastic colour tbc - contractor to allow for non-standard mastic colour, to closely match tile colour	London Unglazed	Architile	Or acceptable alternative, client to approve Setting out to align with wall tiles Substrate, preparation & installation: In accordance with manufacturers recommendations Slip rating to comply with all relevant building regulations Notes for areas where the finish is installed on the existing concrete slab; - If required (due to the moisture levels of the slab) a moisture control product/system must be installed to prevent moisture penetrating or damaging the floor finish. - Self levelling screed is to be installed .
FF-07	GF Offices / Mezzanine	 Colour in image is indicative, colour tbc	Carpet tile	Colour tbc	Epoca Classic Tile 500x500mm	Ege	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations Notes for areas where the finish is installed on the existing concrete slab; - If required (due to the moisture levels of the slab) a moisture control product/system must be installed to prevent moisture penetrating or damaging the floor finish. - Self levelling screed is to be installed The ground floor offices open onto the Gardens (which have an exposed slab floor finish). Therefore, the office FFL will need to be locally ramped down to the slab FFL at the doorways.
FF-08	Café counter / Bar counter	 Colour in image is indicative, colour tbc	Slip resistant vinyl - Colour C	Star K30912	Stronghold 30	Altro	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations Notes for areas where the finish is installed on the existing concrete slab; - If required (due to the moisture levels of the slab) a moisture control product/system must be installed to prevent moisture penetrating or damaging the floor finish. - Self levelling screed is to be installed

Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes								
WF-01	Various	 Photo shows existing condition of floorboards  Design intent of wall cladding, following treatment and staining of existing floorboards	Timber cladding - re-use of existing floorboards as wall cladding	Finish: Matte stain Colour of stain tbc Fire rating: Refer to notes and table within right hand column Sample on site has already been commented on - sample approval process is ongoing	N/A	N/A	Existing floorboards to the mezzanine (which is being demolished) are to be carefully removed and safely stored, ready for re-use The floorboards are to be sanded, made good, repurposed into wall cladding and stained. Method, scope and products are all to specialist subcontractors recommendations. Proposals to be reviewed and approved by client/architect before commencement on site and/or ordering of products Sample: Area of 2 sq.m. is required for review and approval by the client - sample to capture the full proposed treatment, fixing and final finish Fire Rating: All surface linings to walls and ceilings are to comply with the requirements set out in the below table. Please refer to the Approved Inspectors Compliance Report for full details. Approved Document Part B2 - Classification of Linings <table><tr><td>Location</td><td>European Class</td></tr><tr><td>Small rooms of area not more than 30m² in non-residential accommodation</td><td>D-s3, d2</td></tr><tr><td>Other rooms</td><td>C-s3, d2</td></tr><tr><td>Circulation Spaces</td><td>B-s3, d2</td></tr></table>	Location	European Class	Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2	Other rooms	C-s3, d2	Circulation Spaces	B-s3, d2
Location	European Class														
Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2														
Other rooms	C-s3, d2														
Circulation Spaces	B-s3, d2														
WF-02	Various		OSB wall cladding	Finish: Matte, clear Fire rating: Refer to notes and table within right hand column	N/A	N/A	Detailed methodology and installation of cladding by specialist subcontractor Sample: Area of 2 sq.m. is required for review and approval by the client - sample to capture the full proposed treatment, fixing and final finish Fire Rating: All surface linings to walls and ceilings are to comply with the requirements set out in the below table. Please refer to the Approved Inspectors Compliance Report for full details. Approved Document Part B2 - Classification of Linings <table><tr><td>Location</td><td>European Class</td></tr><tr><td>Small rooms of area not more than 30m² in non-residential accommodation</td><td>D-s3, d2</td></tr><tr><td>Other rooms</td><td>C-s3, d2</td></tr><tr><td>Circulation Spaces</td><td>B-s3, d2</td></tr></table>	Location	European Class	Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2	Other rooms	C-s3, d2	Circulation Spaces	B-s3, d2
Location	European Class														
Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2														
Other rooms	C-s3, d2														
Circulation Spaces	B-s3, d2														
WF-03	Various - all existing historic structure and fabric		Linseed paint to historic structure and fabric	Colours have already been confirmed as part of the overall decoration works to the historic fabric	Linseed Paint	Brouns & Co	Preparation & application: In accordance with manufacturers recommendations Sample: Area of 1 sq.m. (including all proposed colours) is required for review and approval by the client								
WF-04	Various - all new structure		Intumescent coating to new steelwork Fire rating requirements to be confirmed	RAL 9004 Signal Black As confirmed by Hart on 26/04/24	To specialist subcontractors recommendations	To specialist subcontractors recommendations	Fire rating requirements to be confirmed Substrate, preparation & installation: In accordance with manufacturers recommendations								
WF-05	Omitted														

Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
WF-06A	WCs - Type A (Green) To be used to the following WC blocks; - Ground floor East block - Mezzanine West block		Ceramic tiles Matt finish Size 100x300 Layout: Vertical stack bond Wall tile grout lines to align with floor tile grout lines	Colour: Arugula Grout colour tbc - contractor to allow for a non-standard grout colour Mastic colour tbc - contractor to allow for non-standard mastic colour, to closely match tile colour	Interiors range	Solus Ceramic	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations
WF-06B	WCs - Type B (Pink) To be used to the following WC blocks; - Ground floor West block - Ground floor Central block - Mezzanine East block		Ceramic tiles Matt finish Various sizes 100x200 & 100x100mm Layout: Pattern, refer to LC-WC series for tile pattern Wall tile grout lines to align with floor tile grout lines	Colour: RAL 050 60 20 Grout colour tbc - contractor to allow for a non-standard grout colour Mastic colour tbc - contractor to allow for non-standard mastic colour, to closely match tile colour	Palette	Architile	Or acceptable alternative, client to approve Please refer to LC-WC-series for file pattern Substrate, preparation & installation: In accordance with manufacturers recommendations
WF-07	Showers		Ceramic tiles Matt finish Size 100x300 Layout: Vertical stack bond Wall tile grout lines to align with floor tile grout lines	Colour: Arugula Grout colour tbc - contractor to allow for a non-standard grout colour Mastic colour tbc - contractor to allow for non-standard mastic colour, to closely match tile colour	Interiors range	Solus Ceramic	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations
WF-08	Omitted						
WF-09	Various FOH Areas		Paint finish	RAL colour tbc	Diamond Matte	Dulux Trade	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations
WF-10	Various BOH Areas		Paint finish	RAL 9010 Pure White	Diamond Matte	Dulux Trade	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations

Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes								
WF-11	Meeting rooms	 Design intent image showing vertical fabric panels, equal widths across the wall	Stretched fabric acoustic wall lining Panels to be of equal width across each wall installation Panel joints to the wall and ceiling installations are to align	Fabric spec tbc - contractor to allow for mid-range fabric from Kvadrat, which achieves the required fire rating Amspec to confirm if we are proceeding with the tender supplier, or whether an alternative is being proposed? Hart will then contact the supplier to obtain the fabric ranges from which we can choose	Fabric Wall - 25mm	Resonics	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations Allow for all accessories required to complete the installation Acoustic Rating: To achieve class C sound absorbency Fire Rating: All surface linings to walls and ceilings are to comply with the requirements set out in the below table. Please refer to the Approved Inspectors Compliance Report for full details. Approved Document Part B2 - Classification of Linings<table><tr><th>Location</th><th>European Class</th></tr><tr><td>Small rooms of area not more than 30m² in non-residential accommodation</td><td>D-s3, d2</td></tr><tr><td>Other rooms</td><td>C-s3, d2</td></tr><tr><td>Circulation Spaces</td><td>B-s3, d2</td></tr></table>	Location	European Class	Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2	Other rooms	C-s3, d2	Circulation Spaces	B-s3, d2
Location	European Class														
Small rooms of area not more than 30m² in non-residential accommodation	D-s3, d2														
Other rooms	C-s3, d2														
Circulation Spaces	B-s3, d2														
WF-12	Prep kitchen		Hygienic wall cladding Full-height to all walls of prep room	White	Whiterock	Altro	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations								
WF-13	Mechanical plant rooms		Sound-absorbent lining, applied to all surfaces of every mechanical plant room	N/A	Rockwool Slab, fleece faced 100mm thick, to achieve Acoustic Consultant's requirements	Rockwool	Or acceptable alternative, client to approve Substrate, preparation & installation: In accordance with manufacturers recommendations								
WF-14	Bar	 Example of fixings, evenly spaced and horizontally aligned	Galvanised corrugated metal wall cladding	Raw galvanised finish	N/A	N/A	Subcontractor to provide fabrication information to be reviewed and approved by client/architect before manufacture begins Materials to be approved through sampling and signed off by the client/architect Fixings to be evenly spaced across the width of the panels and to align horizontally (as per image to left). Specialist fabricator to submit detailed drawings (showing fixings) for review and approval by Architect. Silver screws and silver screw caps to be used as fixings.								

Roof Structure



- Arched Beams : Grey
Dulux Colour Ref - 50BG41044
(Arran Colour match)
- Existing timber panelling
to remain unpainted
- Arched Beam Rooflights : Grey
Dulux Colour Ref - 50BG41044
(Arran Colour match)
- Beams : Grey
Dulux Colour Ref - 50BG41044
(Arran Colour match)
- Vertical Louvre: White
Dulux Colour Reference - 53YY77064
(Restoration White Colour match)
- Torsion Bars : Grey
Dulux Colour Ref - 50BG41044
(Arran Colour match)
- Lattice Beams : Grey
Dulux Colour Ref - 50BG41044
(Arran Colour match)
- Scalloped Trim : White
Dulux Colour Reference - 53YY77064
(Restoration White Colour match)
- Colour references for column details
below this line to follow.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SATINWOOD MEDIUM BASE



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

SATINWOOD MEDIUM BASE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : SATINWOOD MEDIUM BASE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Consumer use
Uses advised against
None

Product use : Solvent borne coating for interior use.

1.3 Details of the supplier of the safety data sheet

ICI Paints AkzoNobel,
Wexham Road,
Slough,
Berkshire,
SL2 5DS, U.K.
Tel.: +44 (0) 333 222 70 70
www.duluxtrade.co.uk

e-mail address of person responsible for this SDS : duluxtrade.advice@akzonobel.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +44 (0)344 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 - Flammable liquid and vapor.

Precautionary statements

General : P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response : Not applicable.

Storage : P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.

Supplemental label elements : Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type

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SECTION 3: Composition/information on ingredients

titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥20 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9 Index: 649-327-00-6	≤9.6	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	-	[1]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5	≤6.1	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	-	[1]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC: 919-857-5	≤4.2	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304	-	[1]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32 EC: 905-588-0	<1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easy to do. Get medical attention if irritation occurs.
- Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SECTION 4: First aid measures

- Ingestion

: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
- Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Over-exposure signs/symptoms

- Eye contact

: No specific data.
- Inhalation

: No specific data.
- Skin contact

: No specific data.
- Ingestion

: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments

: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous combustion products

: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

5.3 Advice for firefighters

SECTION 5: Firefighting measures

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers

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SECTION 7: Handling and storage

Advice on general occupational hygiene	: retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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7.2 Conditions for safe storage, including any incompatibilities	
	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters	
Occupational exposure limits	
Product/ingredient name	Exposure limit values
Reaction mass of ethylbenzene and xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 441 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	Exposure	Value	Population	Effects
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	DNEL	Long term Inhalation	0.41 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/m ³	General population	Local
	DNEL	Long term Oral	300 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	300 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	640 mg/m ³	General population	Local
	DNEL	Long term Inhalation	837.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1152 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1286.4 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	14.8 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	General population	Systemic
Reaction mass of ethylbenzene and xylene	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	289 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	0.34 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.34 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.58 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.94 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.3 mg/m ³	Workers	Systemic
propylidynetrimethanol					

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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SECTION 8: Exposure controls/personal protection

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness ≥ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Wear a respirator conforming to EN140 with type A/P2 filter or better. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: White.
Odor	: Characteristic.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: 149°C (300.2°F)
Flammability	: Not available.
Lower and upper explosion limit	: Greatest known range: Lower: 1.4% Upper: 7.6% (hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics)
Flash point	: Closed cup: 32°C (89.6°F) [Pensky-Martens]
Auto-ignition temperature	:

Ingredient name	°C	°F	Method
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	280 to 470	536 to 878	
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	393	739.4	

Decomposition temperature	: Not available.
pH	: Not applicable. [DIN EN 1262]
Viscosity	: Kinematic (room temperature): 501 mm²/s [DIN EN ISO 3219] Kinematic (40°C): 101 mm²/s [DIN EN ISO 3219]
Solubility(ies)	:

Media	Result
cold water	Not soluble [OECD (TG 105)]

Partition coefficient: n-octanol/ water : Not applicable.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	0.75 to 2.25	0.1 to 0.3				
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	0.0098	0.0013	EU A.4			

Relative density	: 1.397
Vapor density	: Not available.

Particle characteristics

Median particle size	: Not applicable.
Percentage of particles with aerodynamic diameter ≤ 10 µm	: 0

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	LC50 Inhalation Vapor	Rat	8500 mg/m³	4 hours
propylidynetrimethanol	LD50 Oral	Rat	>6 g/kg	-
	LD50 Oral	Mouse	13700 mg/kg	-
	LD50 Oral	Mouse	14000 mg/kg	-
	LD50 Oral	Rat	14100 mg/kg	-
	LD50 Oral	Rat	14000 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Reaction mass of ethylbenzene and xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary : Not available.

Sensitization

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	Category 3	-	Narcotic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	-	Narcotic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-

Product/ingredient name	Result
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

SECTION 11: Toxicological information

Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

No additional information.

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Reaction mass of ethylbenzene and xylene	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
propylidynetrimehanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours

SECTION 12: Ecological information

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, <2% of aromatics	-	10 to 2500	high
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
propylidynetrimethanol	-0.47	<1	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Disposal considerations : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

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SECTION 13: Disposal considerations

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG
14.1 UN number or ID number	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT
14.3 Transport hazard class(es)	3 	3 
14.4 Packing group	III	III
14.5 Environmental hazards	No.	No.

Additional information

ADR/RID : **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. **Tunnel code** (D/E)

IMDG : **Emergency schedules** F-E, _S-E_ **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not applicable.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK (GB) /REACH

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : Not available.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

Biocidal products regulation

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

SECTION 15: Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data

Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

SECTION 16: Other information	
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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Notice to reader

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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SATINWOOD

Dulux Trade Satinwood is a solvent-based satin finish formulation that is tough, hardwearing and dirt resistant. Does not require an undercoat except where a strong colour change is required.

KEY BENEFITS

- Tough, Durable Finish
- Self Undercoating
- Dirt Resistant

PRODUCT INFORMATION

Typical Use

Suitable for use on interior wood and metal surfaces.

Pack Size

1L, 2.5L and 5L.

Colour Range

See appropriate **Dulux Trade** colour literature or visit duluxtrade.co.uk.

Film Properties

Chemical Resistance: Resistant to mild chemical fume attack but where there is heavy attack, such as actual contact with chemicals, specialist paint systems may be required (contact the **AkzoNobel** Technical Advice Centre).

Heat Resistance: Generally resistant to heat up to 90°C, but some discolouration of light colours may occur at elevated temperatures.

Water Resistance: Resistant to the levels of atmospheric humidity present in normal interior environments. Not suitable for use on immersed surfaces or where there is very heavy and prolonged condensation.

Film Thickness

Film thickness will be dependent on the coverage achieved.

Wet: 50 microns.

Dry: 25 microns.

Composition (nominal)

Pigment: Lightfast Pigments.

Binder: Alkyd.

Solvent: White Spirit.

Volume Solids

PBW: 60% (nominal). Other colours will vary.

SURFACE PREPARATION

To get the best results, ensure surfaces to be painted are sound, clean and dry (new surfaces particularly must be fully dry) and free from all defective or poorly adhering material such as dirt, grease and wax.

New or bare surfaces should be primed with an appropriate **Dulux Trade** primer.

Thoroughly rub down previously painted surfaces, using 'wet flattening' methods where possible, then wipe off with a damp, lint free cloth. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead.

Any surface defects should be filled with an appropriate **Polycell** Trade **Polyfilla**.

SYSTEMS INFORMATION

STIR THOROUGHLY BEFORE USE. The normal finishing process is 2 full coats of **Dulux Trade** Satinwood. However, where a strong colour change is required, then a coat of an appropriate coloured **Dulux Trade** Undercoat may be necessary.

For best colour consistency, purchase sufficient tinted paint for entire job including touch-in at one time from the same source.

NOTE: Whilst leading-edge technology has been used in the development of this product, the nature of white solvent-based paints means that they will all discolour over time. The rate of discolouration is faster on areas with no or low natural or UV light. For long-lasting whiteness, we recommend the use of a water-based formulation such as **Dulux Trade** Quick Dry Satinwood.

APPLICATION METHOD

Brush or roller only. For Health & Safety reasons relating to all solvent-based paints, spray application is not recommended.



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SATINWOOD

As with all solvent-based paints, do not apply at temperatures below 5°C (as recommended by British Standard BS 6150).

Practical Coverage

A guide to the practical coverage which can be achieved under normal conditions is up to 17m² per litre.

Spray Recommendations

This product should not be sprayed.

Drying Times

Single coat at standard thickness:

Touch Dry: 4-6 hours.

Recoat: 16-24 hours.

Cleaning Up

After use, remove as much product as possible from equipment before cleaning with brush cleaner.

When this paint container is empty please ask your stockist about recycling. If you have leftover paint, please dispose of it responsibly and consider donating it to **Community RePaint**. Find out more at duluxtrade.co.uk/pp.

Transportation & Storage

Do not use or store in extremes of temperature and protect from frost. To prevent spillage, please store and transport upright.

VOC

EU limit value for this product (cat.: A/d): 300g/l (2010). This product contains max. 300g/l VOC. VOC content: High (25-50%).

FURTHER SUPPORT

If you need further support, please contact the **AkzoNobel** Technical Advice Centre on [0333 222 70 70](tel:03332227070).

Always read full Health, Safety & Environmental Information on can before use.

Safety datasheet (SDS 406) is available free on request by telephoning the **AkzoNobel** Technical Advice Centre or by visiting duluxtrade.co.uk.

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At Dulux Trade, we believe by working with our customers we can reduce waste and do more with the resources we have. Together we can create a better future for our planet. Join us at duluxtrade.co.uk/pp

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