

Details

MCR Reference	CRL-MCR-004850
MCR Submission Type	Option 2 - The proposed material is compatible with an existing approved MCR within the materials list, and will be used in the same manner and location (for the same or different contract) - an eB relationship must be created with the root MCR.
MCR Discipline	,Electrical - LV,Mechanical,Public Health
Product model name and range	Action Can / ZG90
Location	,Back of House,Station Wide
Location- Mounting position	,Ceiling,Floor,On or part of an equipment,Wall
Location - Room description	,MULTI - Multiple Locations
State the room size in m3 where the material will be permanently installed	201
Have eB relationships been created for documents listed in CRL1-XRL-Z-GPD-CR000'-50004?	Yes
Provide specification clause number and title	C530-BBR-M-RSP-CR147-50008 WP1A Mechanical, Electrical and Public Health Materials and Workmanship Specification - Part 1, JY30 Air Ductlines and Ancillaries, JY91 Painting and Corrosion Protection.
Describe the primary composition and use of the material	<p>Action Can ZG90 cold zinc galv paint which will be used though out the C530 project in every site, (station, portals & headhouse) to seal any cut galvanised steel edges, same application as Zinga.</p> <p>1. Paint System</p> <ul style="list-style-type: none"> • Action Can ZG90 Cold Zinc Galv Paint all colours Aerosol • Density at 20°C: 0.738 g/cm³ • Boiling Point: -24°C • Flash Point: -42°C • Zinc purity 98% • Drying Time: Touch Dry 2 mins/Hard Dry 20 mins at 20 degrees Centigrade. <p>VOC Content: 750g/l</p> <p>2. Mechanical Testing</p> <ul style="list-style-type: none"> • Adhesion - Cross-hatch adhesion to ASTM D3359 was performed. No lifting or flaking was evident. Rated as Class 0. • Hardness - A pencil hardness test to ISO 15184:1998 was performed. A result of an 'H' reading was achieved. • Flexibility - Assessed in accordance to ISO 6860: 1995. No cracking or detachment was evident. • Chip Resistance - Conducted to BS AU 148: PT15 1969. No visible chipping or detachment was evident. <p>3. Fluid & Chemical Resistance</p> <ul style="list-style-type: none"> • All conducted to ISO 2812-1 • Water Resistance - A panel was immersed in distilled water for 50 hours and held at 20°C. No wrinkling or blistering was evident on the test panel. <p>4 Weathering</p> <ul style="list-style-type: none"> • Humidity Resistance - Cyclic humidity was performed on the panel; no blistering, rusting, wrinkling, loss of adhesion or chalking was evident. • Hot Salt Spray - No deterioration of the film or creep was evident after 500 hours exposure in accordance with ASTM B117. • Natural Weathering - No visible effects after exposure for 2 years as BS AU 148: PT14 (1969). • Thermal Testing <p>1) ISO 9001: Provided 2) UKAS: Provided</p> <p>For more information please refer to the attached documentation</p>
Justify how the material meets the design requirement / specification, and is Fit-for-Purpose	Suitable for high build, quick air drying, easy recoating and anti corrosion situations on ferrous metals
List of components that do not meet 1-085 criteria and provide justification for use in this location	The proposed material is predominately zinc based, and therefore complies with the 1-085 criteria.

Is this material selected from the Enhanced Capital Allowance Scheme materials list?	No
Is this material suitable for Enhanced Capital Allowance scheme assessment	No
Is this material a significant item that has a direct implication on engineering safety management?	No
Has this material been used in a similar environment, including LU, NR or other railway authority?	No
Provide reference number / case study / railway authority where product was used before if known	
Acceptance/rejection Decal code	Code 1 - Work May Proceed
Acceptance/rejection statement	
CEG Lead Reviewer's Comments	<p>Fire Compliance Code: F1 Approved for use in sub-surface locations and is compliant with LU standard 1-085. This product should only be used in line with the manufacturer's recommendations.</p> <p>It is the responsibility of the Contractor to ensure that this material meets all the requirements of the baseline standard / approved design and is fit for purpose.</p>
Additional Conditions	None
Fire Compliance Code	F1
Work Task Notes - History	<p>##INITIATE---11-04-2017 12:20 PM--- Sarantis Antonakas the manufacturer "Action Can" needs to be added</p> <p>##PFE REVIEW---11-04-2017 12:23 PM--- Ken Macdonald</p> <p>##CEG REVIEW---10-05-2017 7:04 AM--- Seng Lim</p> <p>##CEG APPROVE---22-05-2017 10:51 AM---</p> <p>##PFE CLOSURE---22-05-2017 11:29 AM--- Ken Macdonald</p>

Reviews	
Review Number	Comments
CRL-MCR-004850-001	No objection to the use of this product as noted in the MCR.

CRL-MCR-004850 (Scope: Global)

010101	1.0	Hidden Group used for MCR process	MCR-TEMP-LCLASS	Used to host MCRs when no LClass item exists in ADD	Asset Data Dictionary	Event to Virtual Item
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☒ Projects

Code	Name	Status	Owner
C530	Woolwich Box and Portal Fit-Out	Authorized	Yes

☒ Locations

Name	Path	Class	Code	Relation
Connaught Tunnel (Silvertown Tunnel)	Crossrail\Custom House to Woolwich	Geographic	ST003	Location to Event
North Woolwich Portal	Crossrail\Custom House to Woolwich	Geographic	PT004	Location to Event
Plumstead Portal	Crossrail\Woolwich to Abbey Wood	Geographic	PT005	Location to Event
Plumstead Sidings	Crossrail\Woolwich to Abbey Wood	Geographic	SD013	Location to Event
Woolwich Stn	Crossrail	Geographic	CR147	Location to Event

☒ Reviews

Number	Review Summary	Start Date	Date Completed
CRL-MCR-004850-001	Electrical MCR Review Action	4/11/2017	5/8/2017

☒ Related MCRs and Contracts Correspondence

Relationship	Number	Name	Start Date	End Date
Event	CRL-MCR-000829	Galvanising Spray	1/6/2015	2/9/2015
Event	CRL-MCR-004200	PolyCoating Galvanising Spray	12/8/2016	1/30/2017