

NORTHERN RAILWAY

Head Quarter Office,
Baroda House,
New Delhi.

No. 10/W/0/Policy/Building

Date: 16.06.2015.

C.A.O./Const.,
Northern Railway,
Kashmere Gate, Delhi.

C.A.O./C/USBRL,
Northern Railway,
Kashmere Gate, Delhi.

Director,
IRICEN,
Pune.

Divisional Railway Manager,
Northern Railway,
FZR, UMB, DLI, MB & LKO

Sr. Divisional Engineer/Co-ord.,
Northern Railway,
FZR, UMB, DLI, MB & LKO

Dy.CE/TMC/Line.,
Northern Railway,
State Entry Road,
New Delhi.

Dy. CE/Br. Line,
Northern Railway,
Tilak Bridge,
New Delhi.

Dy.CE/Br.W/Shop.,
Northern Railway,
Lucknow.

Dy.CE/Br.W/Shop.,
Northern Railway,
Jalandhar Cantt.

XEN/TPP/ LKO,
Northern Railway,
Lucknow.

Principal,
C.E.T.A.,
Kanpur.

XEN/FBWP,
Northern Railway,
Meerut.

XEN/Track Depot,
Northern Railway,
Ghaziabad.

Principal,
Bridge Staff Trg. Centre,
Tugalakabad.

All Engineering Officers,
Baroda House,
New Delhi.

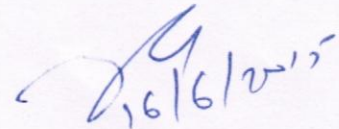
Chief Engineer's Circular No. 623

Sub: Exterior wall painting of high rise buildings.

Please find enclosed here with Chief Engineer's Circular no. 623 regarding "Exterior wall painting of high rise buildings". This may be circulated to all concerned for implementation of instructions contained therein.

Receipt of this letter may be acknowledged.

Encl. - As above



(A.V. Mittal)

Dy. Chief Engineer/ P&D
For General Manager/Engg.

Copy to: (i) Secy Pr.CE for kind information to Pr.CE.

(ii) All HODs/Dy.HODs, HQ Office, N.Rly., Baroda House, New Delhi for information.

Northern Railway

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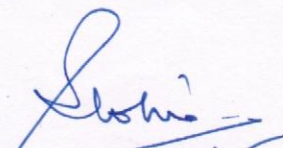
External painting of High Rise buildings involves more effort, time and risk due to requirement of high scaffolding and other temporary arrangement. It is therefore desirable that the exterior painting in these buildings should last more than 5 years without losing sheen. Exterior wall paint should be resistant to algae, fungus, moss growth, ultraviolet rays, etc. It should be capable to fill up micro cracks on wall surface and should not allow dust/pollutants to adhere to its surface.

Contrary to this, useful life of Waterproofing Cement paints is very less. These paints lose their sheen and look shabby in a short period of time and often require painting every year/alternate year depending upon climatic conditions, dust and pollution etc.

As per feedback received from field during various interactions, it has come to light that there is no relevant item in NR-USSOR for painting on old masonry/plastered surfaces using Acrylic Exterior Paint. There is one item "Multi Surface Paint System" which is being used for painting old exterior masonry/plastered surfaces (NR-USSOR Item No. 115080) as there is ambiguity in the description and it is not clearly mentioned if it is applicable for new surfaces or old surfaces.

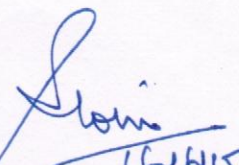
In view of the above, the following instructions are issued:

1. Exterior wall painting of New- high rise buildings (G+4 & above), especially service buildings should be done with suitable water proof paints like "Premium Acrylic smooth exterior paint with silicon additives". Relevant item of Northern Railway USSOR which can be operated is "115180".
2. However, before application of this paint, it should be ensured that there is no dampness, leakage, etc. on the plastered surface. Thin layer of "white cement based putty" can be applied on the plastered surface to fill minor cracks/crevices in the wall surface and reduce surface irregularities. These activities can be done under relevant items of Northern Railway USSOR/Non Schedule Items.


16/6/15

3. In case of Exterior wall painting of Old- high rise buildings (G+4 & above), the old paint should be removed completely by scrapping. Plastered surface may need repair/re-plastering, depending upon the surface condition. Leakage, dampness, etc. has to be completely attended. If needed, thin layer of "white cement based putty" can be applied on the plastered surface to fill minor cracks/crevices in the wall surface and reduce seepage & surface irregularities. These activities can be done under relevant items of Northern Railway USSOR/Non Schedule Items. Subsequently, painting can be done with "Premium Acrylic smooth exterior paint with silicon additives" as per NR-USSOR Item No. 115180.
4. It is important that to get better quality, paints from very reputed brands only should be used. For guidance, some of the reputed brand names are Dulux, Asian Paints, Berger and Nerolac. While using these paints, instructions given in their brochures, regarding application methodology, should be followed for getting desired performance.
5. Such "Premium Acrylic smooth exterior paints with silicon additives" are expected to last in serviceable condition for about 5 years, if painted after proper surface preparation. In case, re-painting before 5 years is required on condition basis, Pr. Chief Engineer's prior approval should be obtained.
6. In case of buildings having floors less than G+4, but otherwise important in character, such exterior wall painting, if required, can be done, with the approval of DRM.

This is issued with the approval of Pr. Chief Engineer.


(S.K. Lohia) 16/6/15
Chief Engineer/P&D