

Philadelphia, April 24 - 1879

J. B. Shipman Esq
Chicago
Dear Sir,

Since writing you the other day with some remarks on the sample of Corroded Lead you send J. T. L. & B. I have given the matter some attention and have made some experiments to try and find out for you the origin of the pink color and the remedy. For a sample of the Lead was dissolved in Acetic Acid, a residue of metallic Lead was left behind and the solution had a peculiar pinkish color evidently from a trace of oxide of iron suspended in the solution and quite likely also from a little tarry matter from the pyroligneous matter - By comparison with other white Lead this shade ~~the~~ in the solution commingled the pink color, as there was no difference to the eye in the solution of ordinary white Lead and of pink Lead. It was then ground in water and dried and most of the pink color disappeared

Philadelphia,

187

Showing that neither Metallic Silver
or sulphur of Lead, oxide of Iron nor
any other metallic oxide produced
the pink color and for the same
reason the color can not come from
organic coloring matter from the tannin
or pyrolignous acid.
Perhaps Red Lead was formed, but this
was not the case, as strong Muriatic
Acid did not evolve the slightest trace
of Chlorine Gas which it would have
created with Red Lead. Nor did
weak Nitric Acid show a brown
residuum of per oxide of Lead which
would have been the result with
Red Lead.

The trouble I think is in the process
of corrosion - Not sufficient Oxygen
so that a lower and red oxide is formed.
This is likely as the color changes on
evaporation with water and the
white Lead seems Permanganate of
Potash slightly - This lower oxide
must be a compound between a
yellow Litharge and brownish suboxide
of Lead and must have a red color

JOHN T. LEWIS & BROS.,

3

OFFICE, NO. 231 SOUTH FRONT STREET,

Philadelphia,

187

as Red Lead -
Remedy - More Ventilation in your Beds.

Business quite lively
If the members of the Assn stick together
I believe we will be able to hold to
prices and be short of Lead by 1st July
Pig Lead 34! Refused
Coi 58¢ - 3¢ for return tank

Yrs true
George W. Lewis.

0007-SWP-043630

0007-SWP-000126974