Encapsulating treatment for degraded asbestos cement roofing

Causes of degradation

Long term weathering degrades Asbestos ie: cycles of wetting , drying heat cold and hail. The hard durable asbestos fibers do not degrade but the cement matrix is subject to carbonation and hydroxide leaching

Brief statement of Samson treatment

- First where mildew exists a treatment of diluted hyper chloride (blue bottle JIK 10:1 with water) will destroy the mildew. The roof is then gently washed with a low pressure water spray equal to rain to remove dust and other debris.

- Second allow the roof to be touch dry then spray on Samsons Hydroxide conversion Stabilizer. This treatment hardens and dust proofs the weakened cement as well as binds in exposed asbestos fibers.

- The third treatment is to reinstate a protective polymered cement based matrix (Samson Roof Renew is available in a variety of colours)

- The fourth treatment is hydrophobic induction using Samson MM HydroGuard which prevents future degradation of the new matrix and stops hydroxide leaching

Detailed method statement

Surface preparation

If necessary first treat mildew with JIK solution then low pressure wash the roof to simply rinse off debris. Where there is excessive debris such as caked on mud it should be swept or scraped off to leave the roof clean.

Allow the roof to surface dry then apply hydroxide conversion stabilizer (HC Primer) .Using a low pressure spray apply Samson HC stabilizer ensuring to spray wet into wet as a flood coat (ensuring no dry spots are left).

Once again when touch dry apply Samson Roof Coat matrix with a brush, mix the roof coat powder using a high speed mixer with water according to Samson instructions (5L/ 12.5 kg) . It is suggested for extra safety applicators wear masks and suitable PPE.

Two coats of Roof Coat slurry are recommended to produce a dry thickness of + - 1.8mm, to be applied in 2 coats, first coat is to be touch dry before application of second coat (roughly 45 mins), each coat should be roughly 900 micron thick. DO NOT WATER CURE THE POLYMERED CEMENT MATRIX. Simply allow to dry and oxygenate.

After 36- 48 hours application of hydrophobic induction can take place (Samson MM Sealer HydroGuard) provided there has been no precipitation. The high build coating must be fully dried!

Apply MM HydroGuard with a low pressure sprayer Once again employ the wet to wet flood coat method to ensure no missed patches. It is wise to avoid windy days for this application, the spray nozzle should be held close to roof surface to avoid loss of the mist spray through wind. It is important to have a visibly darker fully wet surface when applying liquids.

Life expectation of roof renew treatment

A Renew treated roof has a life expectancy approximately 20 years, the only possible maintenance would be reapplication of siloxane if UV destroys the water repellency

For any Further Questions do not hesitate to contact