TILECOAT® Est. 1972

ROOF SURFACE RESTORATION SYSTEMS

MANUFACTURER'S LICENCED DISTRIBUTOR

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THE STORM!!!

A damaging hail storm struck Brisbane at about 6.00 pm on Thursday 19 May 2005.

The size of the hailstones in this storm generally ranged in size from very small up to about 15mm diameter. Wind driven hailstones of this size can severely damage an UNSEALED ageing asbestos cement roof! From the air, the path of the storm can be tracked across Brisbane by following the trail of 'white' UNSEALED asbestos cement roofs. These UNSEALED asbestos cement roofs were 'stripped' clean by the hail and were left 'white' because the previously 'black' weathered surface of the unsealed roof sheeting was 'HAIL-BLASTED' off the roof.

WHAT IS THAT 'BLACK' GRUNGE AND WHERE DID IT GO?

The black appearance of an old asbestos cement roof is created by the growth of lichens, mosses and other organic materials combined with atmospheric dust and pollutants. Over time this 'culture' is fed by rain water and literally 'grows' like a garden. The roots of the plants in this 'garden' penetrate the surface of the UNSEALED asbestos cement roof and over time small particles of cement are dislodged and separated from the asbestos fibres. This results in a steady deterioration of the surface of the asbestos cement mixture. The resultant debris (including asbestos fibres) is deposited by rainwater into guttering and drainage systems.

THE STORM completely HAIL-BLASTED the stabilised surface of the UNSEALED asbestos cement roof sheeting depositing a mixture of mosses, lichens and asbestos fibres into the drainage systems, gardens and surrounds, leaving large areas contaminated with asbestos containing debris.

The end result was that, many workplaces required urgent decontamination to remove the potential hazard posed by asbestos fibres. In some cases workplaces had to be shut-down while the clean-up was conducted!

Over time repeated abrasive action of this sort can measurably reduce the thickness of the roof leaving it vulnerable to cracking.

WHAT TYPE OF ASBESTOS?

Corrugated asbestos cement roof sheeting is commonly comprised of a mixture of cement (approx 85%) and asbestos fibre (approx 15%). Analysis has shown that the majority of asbestos cement roof sheeting in Queensland contains Chrysotile (white) asbestos but older roof sheeting can contain Amosite (brown or grey) or Crocidolite (blue) asbestos or a mixture of asbestos types.

WHAT HAPPENED TO ASBESTOS CEMENT ROOF SHEETING THAT HAD BEEN PREVIOUSLY SEALED BY TILECOAT?

NOTHING!!! THE TILECOAT EPOXYENCAPSULATION SYSTEM WITHSTOOD THE BLAST!

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An inspection of one asbestos cement roof that had been sealed in May 1998 with the Tilecoat Epoxy Encapsulation System showed that the Tilecoat Epoxy Encapsulation System had withstood the abrasive action of the hailstones with only minor 'chipping' evident. There was no evidence of asbestos containing debris in guttering!

Following the storm an inspection was conducted on three asbestos cement roofs installed on residential housing in the same street at Wavell Heights.

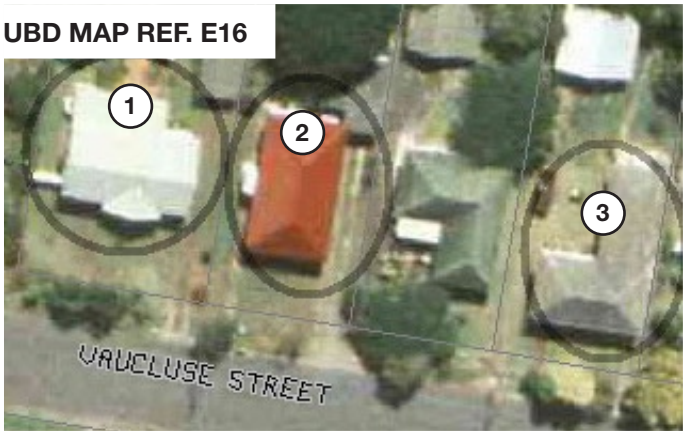
PROPERTY 1
at 29 Vaucluse St Wavell Heights: This roof was treated with Tilecoat Epoxy Encapsulation in May 1998. There was no visible abrasion and the coating remained in good condition. The distribution of asbestos contaminated material had been prevented.

PROPERTY 2
27 Vaucluse St Wavell Heights: This roof had been painted with another company's paint process that involved chemical precleaning and priming. The coating was visibly chipped off by the hail. While debris was evident in guttering, the distribution of asbestos contaminated material had been limited.

PROPERTY 3
23 Vaucluse St Wavell Heights: Not previously painted. The hail 'stripped' the entire roof leaving the roof with the typically 'white' appearance. Significant amounts of asbestos containing debris was dislodged and distributed in the guttering and surrounding areas.

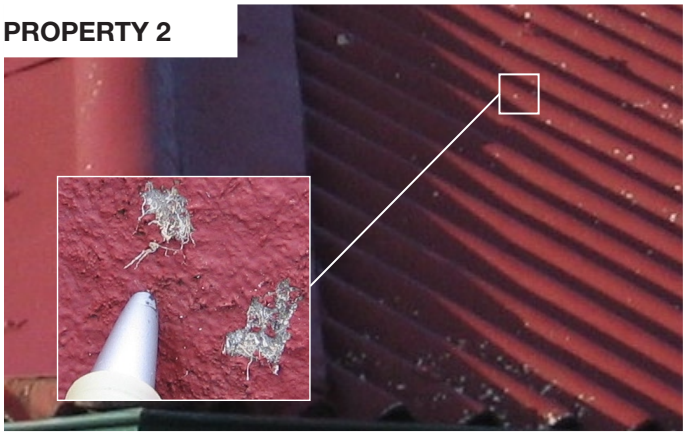
CONCLUSION:
The seven-year-old Tilecoat Epoxy Encapsulation System withstood the abrasive action of the hail and prevented the distribution of asbestos containing debris. Under the attack of wind-driven 5 – 15 mm hail stones, the Tilecoat Epoxy Encapsulation System out-performed another 'paint' coating in preserving the integrity and appearance of the roof.

UBD MAP REF. E16



PROPERTY 1

PROPERTY 2



PROPERTY 3