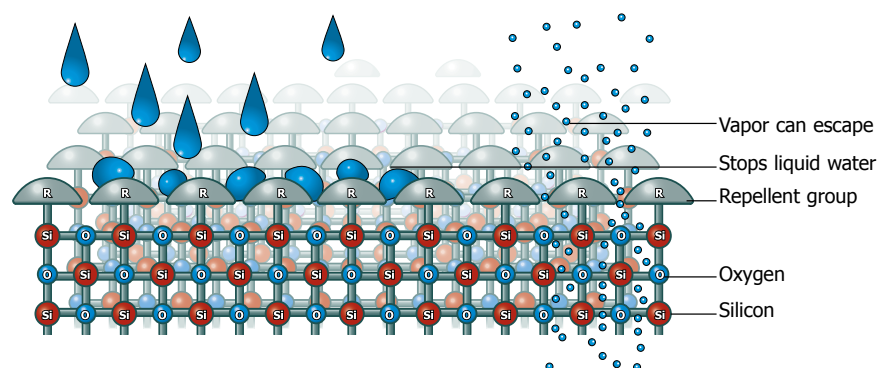


... to protect house exteriors for years - silicone emulsion paint.

Silicon dioxide (SiO_2) or quartz is one of the most inert, durable substances on earth. It is completely unaffected by the sun, the atmosphere, acids, bases, heat and cold.



Silicone paint cures with water in the atmosphere (humidity) to form a 3-dimensional quartz-like structure of alternating silicon and oxygen atoms. Water repellent groups line the pores of the paint and stop the ingress of liquid water but allow water vapor to outgas. This structure, unique to silicone paints, invented in Germany in 1963, is the key to their performance.

Advantages over Traditional Coatings:

low cost . very high weathering and abrasion resistance . nonfading inorganic pigments . resistance to acids and alkalis . heat resistance . non-combustible . high solids . low VOC . non-chalking . 40-year plus re-coat cycle



Source:
Klaas Coatings
klaascoatings-northamerica.com