



A review of adhesion science

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ABSTRACT

Objective. Adhesion or cohesion includes an adherend, adhesive, and intervening interface. Adhesive joints may include one or more interfaces. Adhesion science focuses on understanding the materials properties associated with formation of the interfaces, changes in the interfaces with time, and events associated with failure of the interfaces.

Methods. The key principles for good interface formation are creation of a clean surface, generation of a rough surface for interfacial interlocking, good wetting of the substratum by the adhesive/cohesive materials, adequate flow and adaptation for intimate interaction, and acceptable curing when phase changes are required for final joint formation.

Results. Much more effort is needed in the future to carefully assess each of these using available testing methods that attempt to characterize the energetics of the interfaces. Bonding involves potential contributions from physical, chemical, and mechanical sources but primarily relies on micro-mechanical interaction for success. Characterization of the interface before adhesion, during service, and after failure would be much more useful for future investigations and remains as a great challenge.

Significance. Scientists should more rigorously apply techniques such as comprehensive contact angle analysis (rather than simple water wettability) for surface energy determination, and AFM in addition to SEM for surface texture analysis.

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1. Introduction to adhesion science in dentistry

Everyone has an image of adhesion that includes glue, tape, barnacles sticking to boats, insects walking on ceilings, children's stickers, and a host of dental materials examples. Adhesion involves the tendency of atoms or molecules to stick to each other. Strictly speaking, cohesion involves like materials sticking together, and adhesion involves dissimilar atoms

or molecules sticking together. Both events are relevant to dental materials. This paper deals with both but will focus mostly on adhesive events.

Early records of cohesion techniques such as cold welding of gold and silver from the 1st and 2nd centuries BC [1] are applicable to the fabrication of direct gold foil restorations, which were used in restorative dentistry. Cold welding is an example of cohesion, not adhesion, but the dental example involves both cohesion of the gold and adhesion (mechanical interlocking) into the prepared cavity. Another early example

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