

## Surface Treatment of Polymeric and Inorganic Surfaces

### Description:

Current surface modification technologies do not provide a universal technique that works on all surfaces. This patented technology features an efficient method for permanent surface modification of polymeric and inorganic material and devices using the concept of a “loops” and “tails” configuration of the primary reactive polymer layer. This epoxy-based coating method provides a universal approach to effective covalent attachment of bio-molecules and low molecular weight polymeric substances to alter a variety of material properties such as biocompatibility, wettability, adhesion, lubrication, and selectivity. These modifications can be made on a variety of substrates and has successfully modified surfaces ranging from glass and gold to ultra-high molecular weight polyethylene.

### Applications:

- Textiles
- Polymeric Substrates
- Metal Surfaces

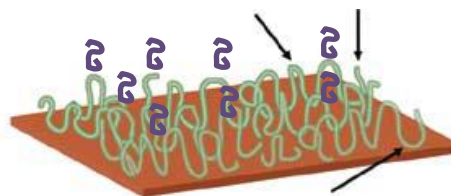


Figure 1: Representation of reactive polymer attachment with attached functional groups

### Benefits:

- Allows surface modification of both polymeric and inorganic materials

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**Licensing Status:** Available for licensing.  
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