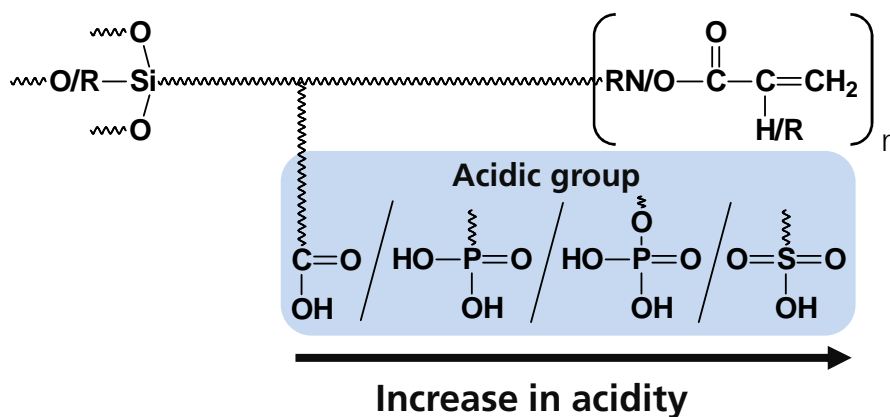


Acid functionalized hybrid polymers on ORMOCER® basis

Functionality

- Carbonic-, phosphonic-, phosphoric- and/or sulfonic acid-based resins
- Additional functional groups possible

Structure



Chemical / physical properties

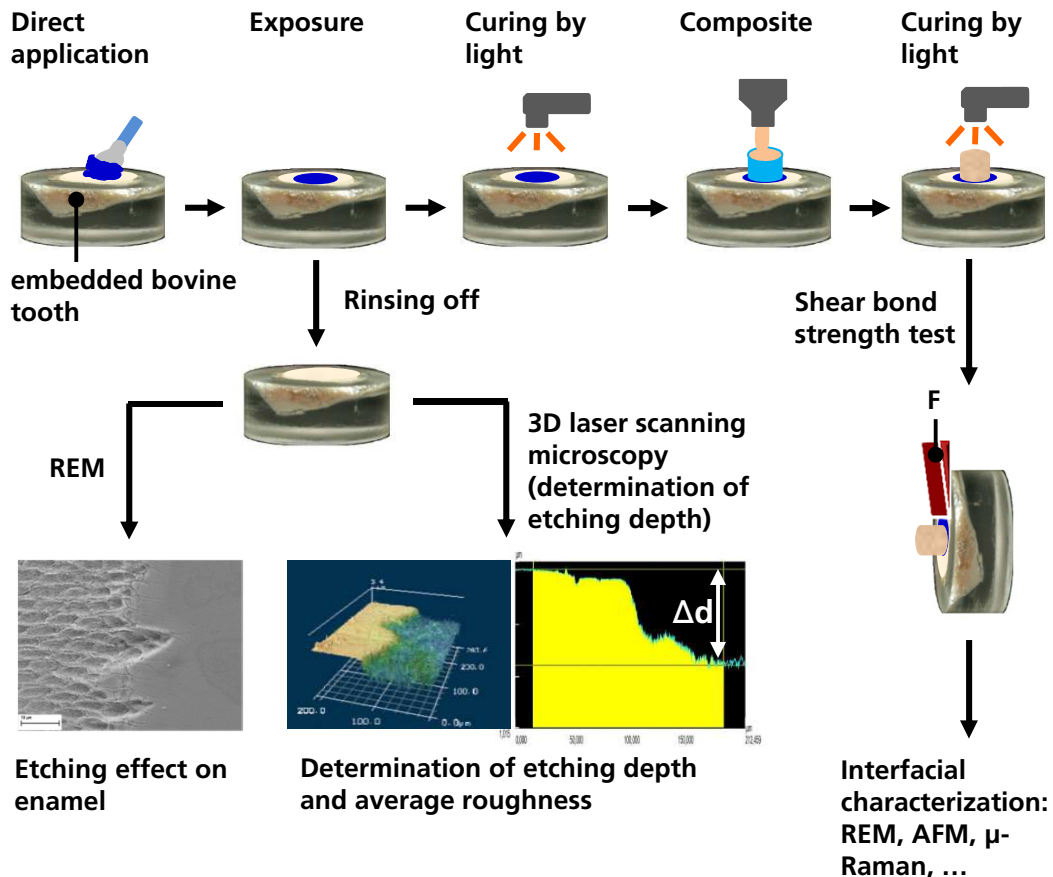
- pH-value up to 0.1
- High etching effect on tooth structure
- Chemical / physical adhesion to inorganic substrates (e.g.. tooth structure)
- Hydrolytically stable adhesive systems possible
- Good solubility in water or in water-miscible solvents such as acetone and ethanol
- Photochemically resp. thermally polymerizable

Applications

(Self)etching dental adhesives

Acid-functionalized hybrid polymers on ORMOCER® basis

Application-specific characterizations



Adhesion examination testing

Shear bond strength test, micro tensile test, and compression shear test

Other fields of application

- Adhesion promoter
- Ion exchanger
- Proton conductor

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