

BAHAN AJAR
BLOK TEKNOLOGI DAN BAHAN KEDOKTERAN GIGI



TOPIK
RESTORATIVE COMPOSITE RESIN

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Restorative Composite Resins

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Overview

- Direct restoratives
 - composition
 - classification
 - performance factors
- Flowable
- Packables



Composite

- Material with two or more distinct substances
 - metals, ceramics or polymers
- Dental resin composite
 - soft organic-resin matrix
 - polymer
 - hard, inorganic-filler particles
 - ceramic
- Most frequently used
 - esthetic-restorative material



Leinfelder 1993

History

- 1871 - silicates
 - alumina-silica glass & phosphoric acid
 - very soluble
 - poor mechanical properties
- 1948 - acrylic resins
 - polymethylmethacrylate
 - high polymerization shrinkage



Runggberg J Prosthet Dent 2002