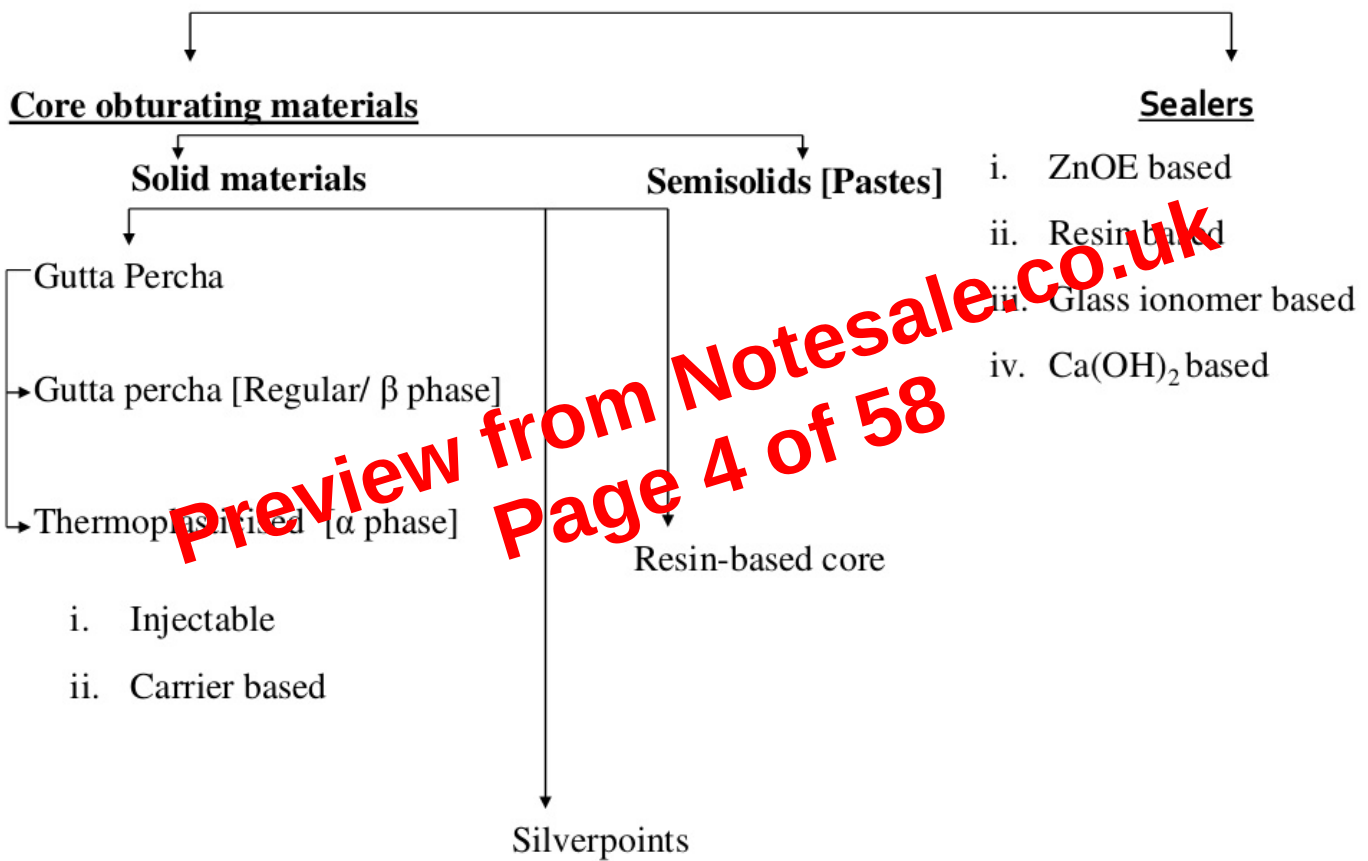


Materials used for Obturation



CURRENT FORMS OF GUTTA-PERCHA AVAILABLE

➤ Solid core Gutta-percha points

- Standardized
- Non standardized

➤ Thermo mechanical compactible

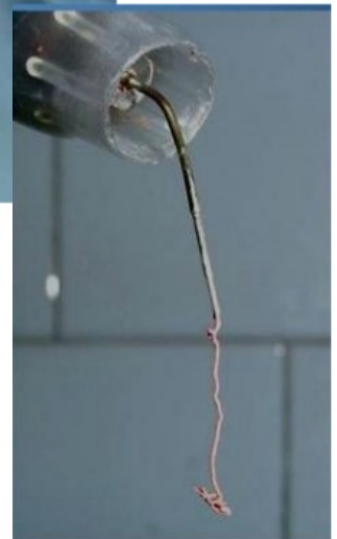
Gutta-percha

➤ Thermo plasticized Gutta-percha

- Solid core system
- Injectable form

➤ Medicated Gutta-percha

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➤ Ultrafil

Ultrafil uses a pre-dosed cannula system. Cannulas containing various types of gutta percha are placed in a heating unit. When needed they are loaded into a gun (similar to a periodontal ligament injection unit), which expresses gutta percha from the cannula. The system is characterized as a "low-heat" unit, since the temperature needed to plasticize the gutta percha is much lower than the Obtura II system.



Gutta Percha Sealers:

GP sealers are prepared by dissolving gutta-percha in solvents like chloroform, eucalyptol, xylol etc., as well as in rosin and balsam –

- Chloropercha,
- Eucapercha
- Xylopercha
- Kloropercha : contains balsam, rosin, and zinc oxide in addition to gutta-percha and chloroform



- Calcium hydroxide containing Gutta percha:

Gutta percha with high content of Calcium hydroxide (40-60%)

- Chlorohexidine Diacetate containing gutta percha.

GP matrix embedded with 5% chlorohexidine diacetate

Used primarily as Intracanal Medicaments.

IDEAL REQUIREMENTS OF A ROOT CANAL SEALER

1. It should be tacky when mixed to provide good adhesion between it and the canal wall when set.
2. It should make a hermetic [sic] seal.
3. It should be radiopaque so that it can be visualised in the radiograph.
4. The particles of powder should be very fine so that they can mix easily with the liquid.
5. It should not shrink upon setting.
6. It should not stain tooth structure.

- All ZOE cements have an extended working time but set faster in the tooth than on the slab because of increased body temperature and humidity
- Zinc oxide eugenol has the disadvantage, however, of being decomposed by water through a continuous loss of the eugenol. This makes ZOE a weak, unstable material and precludes its use in bulk, such as for retrofillings placed apically through the surgical approach.

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- This sealer is packaged in two collapsible tubes containing a base and an accelerator, which when mixed together in equal amounts form a creamy mix
- Advantages: Non-staining, quick and easy to mix, good radiopacity
- Disadvantages: reduced working time in the presence of moisture, expands on setting

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