Pit and Fissure Sealant

By

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Pit and Fissure Sealant

An organic polymer (resin) which flows into the pit or fissure and bonds to the enamel surface by the mechanical retention.
Purpose of the Sealant

- Provide physical barrier to seal off the pit and fissure
- Prevent oral bacteria from collecting within the pit or fissure
- Fill the pit or fissures as deep as possible
Stages of Procedure

- Isolation
- Applying acid etching
- Drying
- Applying the sealant material
- Light curing
Isolation by cotton roll

Isolation by saliva ejector

Acid Etching

Isolation by Rubber Dam

Sealant

Light Curing
Sealants

Before sealant

Etch

Wash and dry

Seal

Cure

After sealant
Watch the Attached Video of Sealant Application...!!
After

Sealant Application

Before
Indications for Sealant Placement

• *Patients with risk for dental caries (any age):*
  - Xerostomia (Dry Mouth): from medications or other reasons
  - Patient undergoing orthodontics
  - Incipient caries: caries is limited to the enamel
Indications for Sealant Placement

- **Teeth:**
  - Newly erupted: as soon after eruption as possible
  - Occlusal contour: when pit or fissure is deep and irregular
  - Caries history: other teeth restored or have carious lesions
Contraindications

- Radiographic evidence of proximal dental caries
- Pit and fissures are well coalesced and self–cleaning: low caries risk
THANK YOU!