Polyjel® NF™

DENTSPLY CAULK

Elastic Polyether Impression Material Type 2 Medium Viscosity

DIRECTIONS FOR USE – ENGLISH

Polyjel® NF™ Impression Material is a prompt setting, hydrophilic, monophase, polyether type elastomeric impression material that provides optimum performance, exceptional dimensional accuracy and stability. It's easy clean up and good patient acceptance optimizes productivity.

Polyjel® NF™ Impression Material is available in tube delivery. It complies with the requirements of ADA Specification No. 19 and ISO 4823:1992 for dental elastomeric impression materials.

Caution: U.S. Federal Law Restricts This Device To Sale By Or On The Order Of A Dentist. For dental use only.

COMPOSITION

Polyjel® NF™ Impression Material is a polyether.

INDICATION FOR USE

Polyjel® NF™ Impression Material is suitable for the single phase technique for a variety of crown and bridge and partial or complete edentulous impression techniques. It may also be used for precise duplication of models in the laboratory.

Technical Data	
Classification ADA Specification No. 19	Type 2: medium viscosity
Classification ISO 4823:1992	Type 2: medium consistency
Mixing ratio by volume	7 volumes base to 1 volume catalyst
Mixing ratio	Equal lengths of base and catalyst
Minimum Work Time (including mixing time) (ADA) = total working time (ISO)	2 min 45 sec
Minimum Removal Time (ADA) Setting Time (ISO)	6 min from start of mix
Minimum Time in Mouth (ISO)	3 min 15 sec
Linear Dimensional Change Immediate 24 hours 7 days	 0.05% 1.10% 0.15–0.25%
Maximum Strain in Compression	2.5–5.0%
% Permanent deformation	0.8–1.6%
Detail Reproduction	20 micron

Data on File

CONTRAINDICATIONS

Do not use Polyjel® NF™™ impression material as a temporary reliner.

WARNINGS

Polyjel® NF™ Tray Adhesive contains acetone, heptane and ethyl acetate. Highly flammable. Harmful. Possible risks of irreversible effects. Danger of serious damage to health by prolonged inhalation. Keep away from sources of ignition — no smoking. Avoid contact with skin and eyes. Do not empty into drains. Use only in well ventilated areas. Take precautionary measures against static discharge.

Warning: Prior to use, read MSDS information and product instructions for this item.

Contact with unset or unmixed Polyjel® NF™ material component may result in hypersensitive skin or mucosal reaction in susceptible persons. In case of accidental contact, wash affected area with soap and water. If evidence of any allergic reaction develops, discontinue use.

PRECAUTIONS

Polyjel® NF™ Impression Material should not be intermixed with or used in conjunction with vinyl polysiloxane materials, conventional (condensation cured) silicones or other manufacturer's polyethers.

Unset Polyjel® NF™ may be removed with acetone, or with soap and water.

Use only Polyjel® NF™ Tray Adhesive. Adhesives other than Polyjel® NF™ Adhesive are not recommended for use with this product. Polyjel® NF™ Tray Adhesive is highly flammable. Do not breath vapors. Avoid prolonged or repeated contact with skin and eyes. Wear suitable protective clothing and gloves. Wash skin with soap and water after contact. Do not take internally.

Polyjel® NF™ Impression Material may harden when exposed to cold weather conditions or refrigeration. It will return to the correct consistency when stored at normal room temperature. For best results, allow Polyjel® NF™ to reach room temperature prior to use.

Ferric Sulfate containing hemostatic agents may cause impressions made with Polyjel® NF™ Impression Material to change color, typically brown, often within minutes of removal from the mouth. This color change will continue over several days. In most cases, dimensional accuracy/stability will not be compromised.

Retraction cord containing epinephrine, 8-hydroxyquinoline sulfate or iron (III) sulfate may impair the setting of Polyjel® NF™ impressions.

Certain disinfectants may cause color change. 5.25% sodium hypochlorite (household bleach), 7.5% hydrogen peroxide and 0.85% phosphoric acid may cause Polyjel® NF™ material to change color. In most cases, dimensional accuracy/stability will not be compromised.

Do not store Polyjel® NF™ impressions in direct sunlight. Do not store or ship Polyjel® NF™ impressions in clear reusable plastic bags. Exposure to sunlight may cause impressions to change color. Prolonged exposure may cause the surface of the impression to become sticky (depolymerizes) after several days. If the impression becomes sticky (depolymerizes) however, the accuracy has probably been compromised. Deviations from a 1/1 mix ratio are not desirable.

Polyjel® NF™ impressions should not be immersed in disinfectants for more than ten minutes.

ADVERSE REACTIONS

Allergic contact dermatitis and other allergic reactions may occur in susceptible individuals.

STEP BY STEP INSTRUCTIONS

Tube Dispensing Instructions

Dispense equal lengths of Polyjel® NF™ catalyst and base material onto mixing pad. This should give quantities close to the recommended weight ratios of 7.2 grams base to 1.0 gram catalyst. Changing the Catalyst/Base ratio is not recommended. Increased room and/or material temperature results in shorter work time and set time.Using a stiff spatula and a stropping action, mix impression material and load syringe and tray. To obtain optimum physical properties, the mix should be completed in 30 to 45 seconds and be completely homogeneous (streak-free). Close tubes immediately after use. Do not interchange base and catalyst screw caps.

Single Phase 1-step Technique

Select and/or prepare suitable tray. Impressions made from this material are very firm so it is advisable to use rigid trays of sufficient size to provide at least 4mm thickness of impression material.

Brush a thin layer of Polyjel® NF™ Adhesive onto tray and allow to air dry. For optimum accuracy use adhesive even with perforated trays. Dry the field and place cotton rolls.

Mix material as described above. Backfill an intraoral impression syringe then place balance of mix in tray.

Remove cotton rolls. Inject syringe mix into and around tooth preparations. It is suggested to syringe completely around preparation at the gingival margins twice, making sure to keep intraoral tip within impression material.

Seat tray. Retain impression in position until firmly set. It sets more promptly in the mouth than on the bench. Check impression in the mouth to be sure it is firm, resilient, and non-tacky before removal. The minimum removal time (tested according to ADA Specification #19) is 6 minutes from start of mix (5 minutes in the mouth).

Remove impression by pulling slowly to break seal, then snap out along the long axis of the tooth. Rinse impression under cold water and blow dry. Do not store impression in direct sunlight. If the impression is to be shipped, use suitable packaging to preclude distortion.

Single Phase 2-step Technique (Optional)
Prepare a suitable tray as outlined above. Take a preliminary impression with Polyjel® NF™ Impression Material before tooth preparation. Remove impression, rinse thoroughly and air dry. Relieve impression with a scalpel or a laboratory acrylic bur. Relieve evenly and sufficiently so that the impression can be reseated without compression.

After preparation, make a second mix of Polyjel® NF™ Impression Material as outlined above. Follow steps 3-6 above for syringe loading and injection into prepared areas. Place remainder of mix into preliminary impression and reseat as above.

DISINFECTION
In an effort to control the transmission of infectious diseases, the impression material may be treated using guidelines set forth in JADA, Vol. 116, February 1088, p. 241. See “Warnings” section for additional information regarding disinfectant compatibility.

CASTING AND ELECTROPLATING
To avoid surface porosity in stone, delay pour 30 minutes; for epoxy dies, delay pour 60 minutes. The impression may be poured up to fourteen days. The material is compatible with a range of die stones. Impressions may be silver, but not copper-plated.

STORAGE AND SHELF LIFE
Store and use Polyjel® NF™ between 65°-80°F (18°-25°C) and in relative humidity of 50% ± 20%. Do not use after expiry date.

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Distributed in the EEC by:
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518000 (R 1/17/02)

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