

Directions for use

**Aquasil Easy Mix Putty
Smart Wetting® Impression Material**

CLASSIFICATION

Quadrafunctional Hydrophilic Addition Reaction Silicone Impression Material
TYPE 1, VERY HIGH VISCOSITY (ADA Spec. #19)
TYPE 0, PUTTY (ISO 4823 - 1992)

Aquasil Putty is a very high viscosity material consisting of two pastes which harden to form a base for final impressions. Aquasil Putty Impression Material is an elastomeric impression material with excellent hydrophilic properties, dimensional accuracy, high tear strength, and resistance to permanent deformation. Aquasil Putty Impression Material with "smart wetting" improves both wetting on the tooth surface and model detail reproduction.

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

COMPOSITION

Aquasil Putty Impression Material is a quadrafunctional hydrophilic addition reaction silicone.

INDICATION FOR USE

Aquasil Putty Impression Material is designed to be used with **Aquasil Regular Set Wash Impression Materials including Aquasil LV and Aquasil XLV** in a Dual Phase Impression Technique. Aquasil Putty Impression Material is suitable for all impression techniques where a high viscosity material would be desired by the operator. It may also be used for precise duplication of models.

TECHNICAL DATA	
Classification ADA Specification No. 19	Type 1: very high viscosity
Classification ISO 4823:1992	Type 0: putty
Mixing ratio by weight or volume	1 part catalyst to 1 part base
Mix Time	45 seconds
Work Time (including mixing time) (ADA) = total working time (ISO)	2 min. - 2 min. 30 sec.
Minimum time in mouth (ISO) (not including work time)	2 min. 30 sec. - 3 min.
Minimum removal time (ADA)	5 min. from start of mix
Setting time (ISO)	
Linear dimensional change (ISO, ADA)	< 0.5%
Strain in compression (ISO, ADA)	1.2% - 2.2%
Recovery from deformation (ISO)	> 99%
Permanent deformation (ADA)	<1%
Detail reproduction	20 µ

Data on File

CONTRAINDICATIONS

Do not use Aquasil Putty Impression Material as a temporary reliner.
Do not use with a polyether or polysulfide material.

WARNINGS

1. Caulk® Tray Adhesive contains n-hexane. 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.

PRECAUTIONS

1. Aquasil Putty Impression Material should not be intermixed with, or used in conjunction with polyether materials, or conventional (condensation cured) silicones.
2. Remove unset Aquasil Putty Impression Material from clothing with a dry cleaning solvent.
3. Do not contaminate retraction cords with latex from "sulfur-containing" polymeric gloves.
4. Handle cords with college pliers. Do not touch prepared tooth with gloves.
5. Caulk 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.
6. At 72°F (22°C) it has a minimum work time of 2 minutes and a minimum removal time of 5 minutes (from start of mix). Variations in temperatures from that stated above will affect work and set times. Higher temperatures reduce those times, and lower temperatures increase them. Variations in the relative amounts of base and catalyst will neither significantly increase nor decrease work or set times. Optimal performance requires a ratio of 1:1.
7. **Storage and Shelf Life:** Store and use Aquasil Easy Mix Putty Impression Material between 65°-80°F (18-25°C) and in relative humidity of 50% ± 20%. Do not use after expiry date.

STEP BY STEP INSTRUCTIONS

Tray Selection

1. Aquasil Putty may be used with a suitable metal tray, a firm disposable tray, or a custom tray. For maximum accuracy use Caulk® Tray Adhesive and rigid trays offering good retention. Brush on a thin layer of Caulk Tray Adhesive nd allow to air dry for five minutes. Other tray adhesives are not recommended for use with this product.

Dispensing

1. Allow Aquasil material to reach room temperature prior to use.
2. Using the scoops provided, dispense equal quantities of base and catalyst.
Note: Close tubs immediately after use. Do not interchange base and catalyst screw caps or scoops.

Mixing

1. Knead by hand until a uniform color is achieved. Note: Latex gloves should be removed and hands washed thoroughly before mixing.
2. To obtain optimum physical properties, the mix should be completely homogenous (streak-free), usually in about 45 seconds.

Impression Procedure

Two Phase/One Step Procedure

1. If there is any debris or blood, clean field with air water spray.
2. Remove excess water with suction. **Do not desiccate the tooth.**
3. Mix Aquasil LV or XLV, (Regular Set), backfill the impression syringe or attach an intraoral tip to the end of the mix tip for direct intraoral syringing.
4. Inject syringe mix into and around tooth preparations. **It is suggested to syringe completely around the margins of the preparation, making sure to keep syringe tip within impression material.** Do not blast with air. Aquasil LV Impression Material's hydrophilic properties improve adaptation to the tooth enabling better "wetting".
5. While syringing wash material, assistant is mixing putty and loading tray.
6. Place Aquasil Putty material directly into impression tray and dimple impression. (This technique ensures the least amount of air incorporation.) Seat tray. Retain impression in position until firmly set. **(Note: The material sets faster in the mouth than on the bench.)** Check impression **in the mouth not on the bench.** Note: Latex gloves should

- be removed and hands washed thoroughly before checking. Be sure it is firm, resilient, and non-tacky before removal. The minimum removal time (tested according to A.D.A. Specification #19) is 5 minutes from start of mix.
7. 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.

Technique Tip: Some residual moisture prior to syringing is acceptable.

Two Phase/Two Step Procedure

1. If there is any debris or blood, clean field with air water spray.
2. Remove excess water with suction. Do not desiccate tooth.
3. Place a polyethylene spacer sheet over putty and seat tray slowly. **(Note: if a polyethylene sheet is not used, relieve the entire impression to provide at least 2 mm of space for the Aquasil LV or XLV, (Regular Set) material. Remove polyethylene sheet from impression surface. The impression should be washed free of saliva and thoroughly air dried before use as a base for subsequent impressions.)**
4. Remove impression when it reaches a rubbery consistency.
5. Allow impression to remain undisturbed until it has set firmly (five minutes from start of mix). Tooth preparations can be made at this time.
6. Select either Aquasil LV or XLV, (Regular Set) as a wash material and mix.
7. Syringe Aquasil LV or XLV, (Regular Set) material evenly around prepared teeth and directly onto Aquasil Putty impression. Replace in mouth and allow to set for 2 minutes 30 seconds to 3 minutes in the mouth (not including work time).
8. Remove impression with a direct pull.
9. Store impression at room temperature. Pour impression with stone or other die materials within 14 days. Impression may be silver or copper plated.

Directions for Border Molding

1. Apply Caulk Tray Adhesive to the borders of the tray.
2. Dispense equal amounts of base and catalyst onto a mixing pad and knead by hand until a uniform color is obtained - mixing time: 45 seconds. Note: Latex gloves should be removed and hands washed thoroughly.
3. Roll the mix into a thin rope and apply uniformly to the tray borders.
4. Instruct patient to perform the various functional movements necessary for conventional border molding techniques.
5. Five minutes from start of mix, remove tray and examine borders. The addition of a small mix can be used if voids or deficient areas are present. Over-extensions can be easily removed with a scalpel blade.
6. The final impression can be made with Aquasil LV or XLV, (Regular Set).

DISINFECTION

The impression can be disinfected with a standard disinfecting solution or spray.

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 1988, P.241.

CASTING AND ELECTROPLATING

To avoid surface porosity in stone, delay pour 15 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 or copper-plated.

Manufactured in the U.S.A. by:
DENTSPLY/Caulk, P.O. Box 359, Milford, DE 19963-0359
1-800-532-2855

Distributed in the EEC by:
DENTSPLY DeTrey GmbH; De-Trey Straße 1, D-78467 Konstanz,
Tel.: 0 75 31/5 83-0

PRINTED IN U.S.A.

578132 (R-10/2/00)