

INSTRUCTIONS FOR USE

INTRODUCTION:

New Ultrafine is a fine grained alloy with exceptional handling characteristics and optimum physical properties. It is available as regular set and fast set.

RATIO:

The recommended New Ultrafine:

Mercury ratio range 10:13 to 10:12 (depending upon what type of mix is required)

At 10:12 a smooth plastic mix is obtained with a working time of 5.5 minutes from the commencement of trituration.

MIXING:

(a) Mortar and Pestle: Triturate in a clean, finely ground, raised centre mortar, with a close fitting pestle using light load (approximately 1kg at 120r.p.m). A smooth plastic mix should be obtained in pressure of mixing.

(b) Mechanical: As a guide, the following Amalgamator times are recommended for New Ultrafine:

Amalgamator	Speed	Time (sec)
SDI Ultramat	High	10
Silamat	High	10
DeTrey's Vibrator	High	10
S.S White Capmaster	Medium	15
Wig-I-bug (regular)	Medium	20
Wig-I-bug (ultra)	High	10
Caulk Varmix	High	10
Toothmaster (old)	Low	25
Dentomat	Medium	25

Note:

(1) A pestle may be used in conjunction with low and medium energy machines.

(2) Dentomat: To obtain consistent mixes with this amalgamator system, the Dentomat must be regularly serviced and in good condition.

CONSIDERATION:

Remove the Ultrafine amalgam from the mortar or mixing capsule, and proceed to condense without delay. If the optimum New Ultrafine:mercury ratio has been used, it will be found that there is little or no excess mercury produced during condensation. Any excess mercury rich material which rises to the surface as condensation progresses should be removed. If necessary, the amalgam paste may be squeezed in a squeeze cloth prior to commencement of condensation.

Using small portions of amalgam, build the restoration up to a slightly overfilled condition and carve back. The amalgam must not be contaminated with moisture.

Moisture contamination will adversely affect all properties particularly corrosion resistance. A 1.5mm plugger is recommended using a load of approximately 3kg on the plugger. Alternatively, mechanical condensers may be utilised, but this should preferably be left for 24hours.

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American Dental Association Mechanical Amalgamation Requirement:

Amalgamator	Ultramat	Model A
	or	
	Vivadent	Type: Silamat
Cycles per second		75
Time of Mixing		10

Plastic Capsule (reusable)

Internal diameter (mm)	9.1
Internal length (mm)	29.8
External length (mm)	31.8
Weight (gm)	1.2

For tablets using 0.6gm alloy

Pestle weight (gm)	1.2
Time of mixing (sec)	8



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EC REP

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