



SDI admix alloy

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INSTRUCTIONS FOR USE

INTRODUCTION:

SDI Admix Alloy is an optimised blend of spherical and irregular lathe-cut alloy particles containing silver, tin and copper. When triturated with pure mercury, SDI Admix powder will produce superior non-gamma 2 dental amalgams with outstanding physical properties.

RATIO:

The optimum powder to mercury ratio is 1/0.9 (47.4% Hg) However depending upon choice, ratios of 1/0.88 to 1/0.94 may be utilized.

PROPORTIONING:

- (a) Alloy Balance: Select desired ratio ensuring that the powder and then mercury are located in the middle of the pan
- (b) Proportioner: If a fixed alloy proportioner is used, an adjustable mercury proportioner should be used in conjunction with it.

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 120 rpm.
- (b) Mechanical: Carefully transfer the powder and mercury into a clean reusable-mixing capsule, using a small funnel to prevent spilling, and seal the capsule correctly.

At the specified ratio a correctly mixed amalgam will form a bright, shiny cohesive mass. A dull dry amalgam indicates under mixing and a wet amalgam indicates over mixing.

As a guide, the following Amalgamator times are recommended for SDI Admix Alloy

Amalgamator	Speed	Time (sec)
SDI Ultramat	High	8
Silamat	High	8
DeTrey's Vibrator	High	8
S White Capmaster	Medium	15
Wig-I-bug (regular)	Medium	20
Wig-I-bug (ultra)	High	8
Caulk Vari-Mix	Medium M-2	10
Toothmaster (old)	Low	25
Dentomat	Medium	25

Note:

- (1) A 1g pestle may be used to aid mixing in very low energy machines.
- (2) Dentomat: To obtain consistent mixes with this amalgamator system, do not fill the powder hopper more than 3/4 full and regularly service the machine.

CONDENSATION:

Traditional condensation techniques are recommended but because of the unique mobility of SDI Admix amalgam, larger plugger sizes and lighter condensation pressure may be employed. Smooth-faced condensers are recommended. Avoid contaminating the amalgam with moisture during placement, as this can adversely affect physical properties. Remove the mixed amalgam from the mortar or mixing capsule, and proceed to condense without delay. Using small portions of amalgam and medium condensing pressure, build up the restoration, removing excess mercury that may rise to the surface. Over pack the cavity and carve back so as to remove mercury-rich material from the surface. If the optimum alloy-mercury ratio has been used, there will be little or no excess mercury produced during placement. Mechanical condensers may be used, however, a drier initial mix is recommended.

FINISHING:

Trimming and carving can be commenced immediately condensation is completed. Light burnishing can be used to advantage and if the restoration is polished, this procedure should be carried out after 24 hours. Avoid over heating by using low speed polishing and ensuring adequate water-cooling.

WARNING:

Adequate ventilation is required when working with mercury and amalgams. The wearing of gloves is recommended for all dental procedures. Store amalgam wastes in a sealed container away from excessive heat. Ensure proper disposal of amalgam waste in accordance with local regulations.

In case of Spillage: Use HGX or similar type mercury absorbing compounds. Avoid clean up methods that would tend to break up the mercury into small droplets or that would heat the mercury.

American Dental Association Mechanical Amalgamation Requirements:

Amalgamator	SDI Ultramat 2
Cycles per second	75
Time of Mixing (seconds)	8
Plastic Capsule (reusable)	
Internal diameter (mm)	9.1
Internal length (mm)	29.8
External length (mm)	31.8
Weight (g)	1.2

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