

19.

MSDS Sheet for Dispersalloy

**DENSPLY**  
**CAULK**

Directions for use

CE  
0120  
English

## Dispersalloy®

### Self-Activating Capsule

A dispersed phase admix amalgam, containing lathe-cut particles and silver/copper eutectic spheres.  
Caution: U.S. Federal law restricts this device to sale by or on the order of a dentist. For dental use only.

#### Composition

Cap size	1 spill	2 spill	3 spill
Alloy Powder			
Silver	277.2 mg	415.8 mg	554.4 mg
Tin	71.6 mg	107.4 mg	143.2 mg
Copper	47.2 mg	70.8 mg	94.4 mg
Zinc	4.0 mg	6.0 mg	8.0 mg
	<hr/>	<hr/>	<hr/>
	400 mg	600 mg	800 mg
Mercury	396 mg	596 mg	796 mg

#### Indication for use

Dispersalloy® should be used in stress bearing restorations (Class 1 and 2), when other restorative materials or restoration techniques are not indicated.

#### Contraindication

- The use of amalgam is contraindicated:
- In proximal or occlusal contact to dissimilar metal restorations
  - In patients with severe renal deficiency,
  - In patients with known allergies to amalgams,
  - For retrograde or endodontic filling,
  - As a filling material for cast crown,
  - In children 6 and under,
  - In expectant mothers.

#### Side Effects / Warning

This product contains mercury, which is known by the state of California to cause birth defects or other reproductive harm. Prior to use, read the MSDS information and product instructions for this item.

Exposure to mercury may cause irritation to skin, eyes, respiratory tract and mucous membrane. In individual cases, hypersensitivity reactions, allergies, or electrochemically caused local reactions have been observed. Due to electrochemical processes, the lichen planus of the mucosa may develop.

Mercury may also be a skin sensitizer, pulmonary sensitizer, nephrotoxin and neurotoxin.

After placement or removal of amalgam restorations, there is a temporary increase of the mercury concentration in the blood and urine.

Mercury expressed during condensation and unset amalgam may cause amalgamation or galvanic effect if in contact with other metal restorations. If symptoms persist, the amalgam should be replaced by a different material.

Removal of clinically acceptable amalgam restorations should be avoided to minimize mercury exposure, especially in expectant mothers.

The number of amalgam restorations for one patient should be kept to a minimum.

Inhalation of mercury vapor by dental staff may be avoided by proper handling of the amalgam, the use of masks, along with adequate ventilation.

Avoid contact with skin and wear safety glasses and gloves.

Store amalgam scrap in well sealed containers. Regulations for disposal must be observed.

**DISPERSALLOY® CONTAINS ZINC; THE AMALGAM MADE THEREFROM MAY SHOW EXCESSIVE EXPANSION IF MOISTURE IS INTRODUCED DURING MIXING, CONDENSING AND COMPACTING.**

**Trituration**

Simply place Dispersalloy® Self-Activating capsules in the amalgamator. These capsules are activated by the amalgamator - they do not require manual activation. Trituration speed and time is an important factor in preparing the amalgam, in order to achieve proper amalgam mix consistency. The chart that follows provides guidelines in determining amalgamator trituration time and speed setting for Dispersalloy® Self-Activating Capsules:

RS = Regular Set  
FS = Fast Set

Approximate Trituration Time Range (in seconds)

Amalgamator	Speed Setting	1 Spill		2 Spill		3 Spill	
		RS	FS	RS	FS	RS	FS
Caulk ProMix	Medium (turk)	14±3	14±3	14±3	14±3	12±2	12±2
Caulk Vari-Mix II M	M2	14±3	14±3	14±3	14±3	12±2	12±2
Caulk Vari-Mix III	M2	14±3	14±3	14±3	14±3	12±2	12±2
ESPE CapMix	--	5±1	5±1	5±1	5±1	5±1	5±1
Wig-L-Bug DS80	High	14±3	14±3	14±3	14±3	12±2	12±2
Wig-L-Bug MSD	3800 rpm	14±3	14±3	14±3	14±3	12±2	12±2
Kerr	3800 rpm	14±3	14±3	14±3	14±3	12±2	12±2
ADEC	5	14±3	14±3	14±3	14±3	14±3	14±3
Silamat Plus	4000 rpm (P-2 slow)	7±1	7±1	6±1	6±1	6±1	6±1
Silamat Plus 220V	4000 rpm	7±2	7±2	7±2	6±1	6±2	6±1

**Decrease trituration time:**

- To lengthen working time
- If mix is too hot
- If mix is too dry

**Increase trituration time:**

- To shorten working time
- If mix is too wet

**Condensation**

Condense immediately after mix is completed. Pack angles and undercuts with small-faced plugger and sufficient pressure to insure good adaptation. Build the restoration with additional portions, until the cavity is slightly overfilled. Remove any mercury-rich amalgam from the surface that may develop during condensation.

**Carving / Burnishing**

Carving can begin immediately after condensation. A sharp carver will give best results. Burnishing setting amalgam is recommended to improve surface smoothness.

**Polishing**

The quality of the Dispersalloy™ restoration will be enhanced by polishing. The amalgam should be allowed to set 24 to 48 hours before polishing.

**Suggestions for best results with Dispersalloy®**

- Manufacturer's variation in amalgamators and differences in local electrical current may necessitate adjusting trituration time.
- Properly triturated Dispersalloy® does not require mulling to produce a smooth plasticity; however you may mull for 1-2 seconds after removing pestle to collect amalgam into a single mass. A gentle tap may be required to free amalgam from the capsule. A plastic wafer which contained mercury before mixing may occasionally be seen. It has no further function and should be discarded.
- Before the matrix band is removed, the marginal ridge should be supported by a condenser.
- After removal of the matrix band, gingival margins may be smoothed with a curved explorer.
- The anatomy should be carved proceeding from the proximal margins towards the center of the restoration.

**Storage**

Do not store under extreme conditions of temperature and humidity.

**LOT number and Expiry date**

- Do not use after expiry date.
- The lot number indicates important production information. The number should be quoted in all correspondence which requires identification of the product.

Made by:  
DENTSPLY/Caulk  
38 W. Clarke Ave.  
Millford, DE 19963-0359  
U.S.A.

Responsible distributor in Europe:  
DENTSPLY DeTrey GmbH  
De-Trey-Strasse 1  
D-78467 Konstanz  
Germany