





micro Ortho Plus®

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Thank you for choosing **Micro Ortho Plus®** the flexible orthodontic „salt and pepper“ acrylic.

Micro Ortho Plus® can be used for any orthodontic indication and shows excellent material characteristics when used with the salt and pepper technique. To make sure you always achieve reliable results, we would like to ask you to read these instructions thoroughly.

Indications:

- Orthodontic devices by using the „salt and pepper“ technique

Short Information:

Mixing ratio Powder/Liquid	10:4-5
Swelling phase approx.	30 sec.*
Plastic phase approx.	10 min.*
Polymerization under pressure at 45-50°C	10-15 min.*

*The provided processing times refer to a material- and room temperature of 23°C [73,5°F].

Higher temperatures shorten, lower temperatures extend these processing times

About this product:

Micro Ortho Plus® flows very easily. The materials expanded processing time allows most stress free handling. The acrylic is also perfectly suitable for the completion of orthodontic devices made of thermoforming foils, because the two materials bond very easily.

Material / Purpose:

Orthodontic resin, autopolymer based on methyl-methacrylate in the form of powder and liquid. Classification according to ISO 20795-2 Type 1 and according to MDD 93/42/EEC annex IX Class I for removable orthodontic devices.

Product features:

- Cadmium free
- versatile use
- very good free-flow ability of the polymer
- extended processing time
- color stable
- evaluated and certified biocompatibility

Mixing ratio 10 : 5

The material is especially designed for the „salt and pepper“ technique.

In exceptional cases the material can also be handled by using the doughing technique. In these cases the suggested mixing ratio is 10g of powder and 5ml of liquid.

Preparation:

To assure that no air is pressed into the acrylic in the polymerization process, the plaster model needs to be watered until no more air bubbles are discharged from the plaster.

Isolation:

The plaster model should be isolated with two thin layers of alginate based isolation

microSOL® always shows reliable results.

Important: The isolation needs to be well dried to make sure there are no white marks or spots on the basal surface of the cured acrylic.

Suggested Processing (salt and pepper method):

When the isolation is thoroughly dried, the monomer is applied to the plaster model by either using a spray bottle or a small brush. Then the powder is sprayed on. This process is to be repeated until the desired thickness is reached. It is necessary to only apply as much liquid as needed to absorb the powder. Before polymerization of the appliance the surface should be moistened with liquid to smoothen the surface.

Processing (doughing technique):

Place the required amount of liquid into the mixing cup, then add the according amount of powder. When dosing individually add just as much powder as needed to absorb the liquid. Stir thoroughly until the material reaches a homogenous consistency. After a swelling phase of approximately 30 seconds the material can be processed.

Polymerization:

The polymerization should be carried out in a pressure polymerization unit with a pressure of 2 to 3 bar and a water temperature of 40°C for about 10 minutes.

After completion:

Until incorporation the orthodontic device should be stored in water. It is recommended to water the appliance for at least 24 hours to achieve an even higher resorption of the residual monomer and thus reduce irritations of taste.

Storage and safety measures:

The material must not be used after expiration date. Storage temperature must not exceed 25°C [77°F]. Avoid direct sunlight. Keep containers closed after use and keep out of reach of children. Monomer is highly flammable, irritating to respiratory system and skin. Sensitization may occur after skin contact. Keep containers in a well ventilated place. Avoid contact with eyes and skin. Do not inhale vapours. Keep away from sources of ignition. Do not smoke. Do not allow liquid to get into drains. Empty containers can be recycled in accordance to your local recycling regulations.

Product shades:

Micro Ortho Plus® is generally „colorless/clear“. The monomer however can be dyed into any desired shade by using the especially gned color concentrates **Micro Ortho® COLOR**. These are available in the following shades:
pink clear, red clear, blue clear, yellow clear, green clear