ORTHODONTIC COLD CURE MATERIAL
PROCESS DATA SHEET

Type 1 Class 2
For use with removable orthodontic appliances

Description
OPACRYL is a self-curing polymer and monomer material, designed for use at 20-21°C for the production of high quality removable orthodontic appliances, i.e. spring appliances, screw section appliances and micro-functional appliances, i.e. bionator, mono bloc etc.

Suggested method of application

Preparation
After forming all wire work and placing relief over spring components, place the model in tepid water to remove all air. Dry and coat with separating solution.

Application
Holding the dry coated model allowing access to one side of the plate, spray the polymer onto the visible area, making sure it in-fills between any wirework and model. If the model is angled the polymer should not slump into the vault of the plate.

Dispense the liquid from the dropper until all of polymer has absorbed the monomer, this should be quite rapid. Make sure the polymer is not over saturated with monomer.

Having made sure all the polymer is covered, move the model round, still angulated to acquire access to the opposite side of the model and repeat the process.

A quick build up to the desired thickness can be obtained by continuing with the technique. Similarly bite planes can be built up to the required dimensions.

Trim the periphery with a sharp blade; making sure the acrylic is not lifted from the model. Place the appliance on the model in a pressure-curing device for a minimum of 10 minutes at 40°C +/-5°C

Finishing
The cured appliance can be trimmed using standard burs/stones and polishing techniques.

Note:
The working times will be affected by room temperature, being shorter at higher temperatures.

Health & Safety
For general health & safety see overleaf, more detailed information consult relevant Manufactured Health & Safety Data Sheets

SAFETY PRECAUTIONS

DENTAL METHACRYLATE MONOMERS

STORAGE
Store in a cool place away from direct sunlight, naked flames and sparks. Providing the material is stored correctly the self-life is two years.

HANDLING
WHW polymer solutions containing flammable solvents and should be handled in a well-ventilated non-smoking area, away from heat and naked flames.

Contact with skin and eyes should be avoided and suitable protective clothing should be worn, i.e. overalls, gloves and goggles. In the event of contact wash immediately with copious amounts of water.

A spillage of solution should be cleaned up with sand and earth.

In the event of fire use sand, earth or suitable extinguisher.

The flash point of Methacrylate Monomer is 10°C

DENTAL BEAD POLYMERS

STORAGE
Store in a cool dry place. Providing the material is stored correctly the shelf life is 3 years.

HANDLING
Although these products present no toxic hazard care must be taken when handling to avoid the possibility of dust explosion occurring.

Suitable protective clothing should be worn, i.e. Overalls, and dust mask if dust is created.

Electrical fittings in the immediate area should be dust proof.

Where exhaust systems are used they should be equipped with explosion relief panels and runs of ducting should be as short and direct as possible.