

Silicone based Adhesives dispersed in Solvents. I

Some tips and advantages on adhesives for patient care.
http://www.factor2.com/Articles/article_careforprosthesis.asp

One of the major differences in all of these adhesives is the solid to solvent content ratio.

The B-400 is a thin PSA (pressure sensitive adhesive) This is a silicone based adhesive in 12% silicone solids, 78% solvent. Once the solvent evaporates the remaining material presents a thin tacky silicone surface.

B-400 is PSA in Ethyl Acetate in a 1 oz bottle

B-401 is the same in a 2 oz bottle.

B-402 is the same in a 16 oz bottle.

B-460 is an identical material to the B-400, this material is dispersed in the same solvent; but is newly formulated and is proven to demonstrate a higher tack. This is not necessarily true in all daily uses since the real test is:

1. Based on both the material one is adhering to:
for example (silicone, urethane, vinyl) or any material a device could be made of.
2. The size, weight and placement of the device.
3. The Ph of the patients' skin
4. Climate (hot & humid) (cold & dry)
5. Fillers used in the device:

There are many other factors that come into play while judging the adhesive strength, tenacity and longevity of the adhesive bond. There are no absolutes in qualifying a material; the material must be tested to achieve absolute results.

The solvent in all of the adhesives the B-400, B-460 the BT-401 and the BT-460 is ethyl acetate. Testing and data on all of these products are available upon request.

These are based on the original formula from 1960's, when the entire industry was forced to change the solvent because of the EPA, the Federal Government.

B-460 is PSA in Ethyl Acetate in a 1 oz bottle

B-461 is a 2 oz container. (30% Solids and 70% Solvent)

B-462 is a 16 oz container.

Silicone based Adhesives dispersed in Solvents. II

When you go to the BT series it is also the same PSA material, we have simply used the BT to designate Thick, so the material is 78% solids in 22% solvent. Exactly the reverse of the B series material. So you will pay more but you will receive more solid content so the material will appear much thicker (increased viscosity).

We at Factor II, Inc. can not imagine why a typical patient in normal daily use would require this thick formulation, but we do offer it to clinics and studios. One real advantage to purchasing the thick version is this allows you the user to mix the thick and thin together to create your own level of solid that may work better for your particular situation.

BT-401 2 oz Thick (65% Solids and 35% Solvent)
BT-402 16 oz Thick (65% Solids and 35% Solvent)
BT-460 2 oz Thick (60% Solids and 40% Solvent,
BT-461 16 oz Thick

The B-520 is a very similar product, it is also a PSA dispersed in Pentafluoropropane the odor does not appear to present itself as strong or offensive to most clinicians, and the tack is very good.

It is also a silicone based solid in a thin version of solvents, this material is only available in the thin version.

B-520 is a 1 oz container.
B-521 is a 2 oz container.
B-522 is a 16 oz container.

At this point it is based on the user and the client more so than the material. The silicone adhesives are excellent products, they are all used and proven for use for prosthetics, ostomy devices, hairpieces, special effects And any imaginable product that is glued to the body.

All items can be found on our website at;

www.factor2.com