PRE-APPLICATION APPEARANCE AND PREPARATION OF HPC® COATING

QUESTION: After delivery and storage, the top of a pail of HPC Coating has swollen and expanded and appears too dry and chunky to use. Is it defective? What causes the swelling of the pail and the dryness?

ANSWER: HPC® COATING is a water-based, ceramic coating and is delivered in a 5 gallon pail. After the pail is sealed and stored, HPC Coating will gradually absorb and dissipate its own water over time. Some air pressure is created in the pail during this process and may cause the top of the pail to expand and swell. This absorption/dissipation process is commonly known as rheology and does not harm or adversely affect the use or performance of the coating.

HPC - Before Mixing In Pail

Early Stage During Mixing in Pail

Rheology occurs when a coating begins to set up because of non-activity. When the coating is stirred and water is added, the rheology allows the coating to relax and loosen and to return to its original consistency. After opening the pail, the top surface of HPC Coating may appear very dry and dusty with some cracking. As a result, the applicator

may believe that HPC Coating idefective or too dry to use. This is not the case, and the appearance of HPC Coating will change dramatically upon proper mixing.

Six Inch Dispersion Blade

Six Inch Dispersion Blade

Stir **HPC® COATING** with a six inch (6”) diameter dispersion blade on a drill at a low to medium speed while adding water gradually. The coating will slowly return to a paste form as water is added during mixing. Continue to add water gradually while stirring until **HPC® COATING** becomes smooth, light, and fluffy and has the appearance of thick whipped cream. The amount of additional water that will be required will depend on the age of the coating and environmental conditions, but it can vary from one cup of added water to one to two quarts of added water. When properly mixed, HPC Coating will be a smooth paste that is wet to the touch and will adhere easily to the surface. It will not appear lumpy or dry when properly mixed.

Late Stage During Mixing in Pail

After Proper Mixing / Ready to Apply

Each pail of **HPC® COATING** must be mechanically stirred for at least three minutes just before spraying. It cannot be shaken or stirred by hand to reach the proper mix and

texture.

HPC® COATING was designed to be sprayed using a conventional HOPPER GUN or a GRACO Texspray RTX 1000 - 1500 hopper feed texture sprayer. For small pipe, difficult access or small repair applications it can also be gloved or trowelled on.

Use a thickness gauge to check the wet thickness being applied. The number of coats and total thickness of the **HPC® COATING** will vary depending upon the desired results required and the application temperature ie. ambient temperature or operational temperature.

Whenever possible coat the entire surface one meter \ yard at a time. In the case of a pipe, start at the 12 o'clock position and spray a one meter length to the 6 o'clock position and then continue on the other side from the 12 o'clock to the 6 o'clock position for the same one meter length.

If a smoother surface for **HPC® COATING** is desired after application, use a wet, foam roller to lightly roll over the surface of the coating to obtain the desired smoothness.