

## Pure Polyurea vs. Polyurea Hybrids

As we talk to our current clients and potential clients most all have, at some point, experienced the following characteristics of product they purchased as “polyurea”. The sales people touted the physical characteristics but none of the customary problems with “hybrid” polyurea products.

### Polyurea Hybrid

### PERMCOAT™ PURE POLYUREA

#### 1. Need to stir product

#### NO STIRRING NEEDED

The need to stir the product comes from the addition of what is termed “aggregators”. These are like tiny sponges that soak up water or moisture in the product. Without these the product would foam or blister when sprayed. The evidence of aggregators is a white or amber sludge in the bottom of the drum. In most all cases there is a 2 gal + loss of materials that cannot be used due to clogging! Add this factor into the cost of the product. An additional sign is and common problem is an orange peel effect in the final product, with hybrids.

#### 2. Sensitive to Moisture & Temperature

#### NOT SENSITIVE

Hybrids are sensitive due to the fact that they are catalyst driven. Chemistry is added to accelerate the reaction of the Part A & B components. Depending on where you are in the country you may need an winter and summer formula to compensate.

#### 3. Clogging at the gun tip

#### NONE

Clogging is due to the “aggregators” in the hybrid formulation. Once they accumulate moisture, they expand causing production delays and loss of product.



PURE POLYUREA is a chemical reaction. Hybrids utilize “catalysts”. This may even require summer and winter mixtures depending on where you are in the country. When A & B come together in our Pure Polyurea they WILL complete the cycle. It is NOT SENSITIVE to moisture or temperature. We have samples sprayed over water. Please see our website

[www.coatingsinternationalllc.com](http://www.coatingsinternationalllc.com) for a picture. When you use our PURE POLYUREA you will see the difference immediately as it comes out of the gun!

#### 4. The need to Heat Product

#### NOT ALL THE TIME

The basic need to heat product with drum heaters is to assure that the product flows properly and to insure that the viscosity is such that you get a 1 to 1 mixture at the spray gun. Hybrids are more sensitive to temperature than PURE POLYUREA. If the weather temperature is 75 or above there is no need to heat the drums of PURE POLYUREA as long as the heat in the hose is working properly.

#### 5. Labor Savings

#### GUARANTEED

The cost of labor is a critical factor, not to mention the loss of substrates used in the job as well as having to recreate them. With the problems that we have seen with Hybrids as well as those mentioned above, the choice to use PURE POLYUREA is pretty much a no brainer. Having a PURE POLYUREA will make the man on the spray gun very happy!

We are dedicated to providing the industry’s best formulations based on 1,000 of tests and over 30 years of experience of our Technical Director as well as our blenders. “It is our goal to not only meet your expectations but to exceed them.”

We are confident that when you use our formulations you will be wondering where we have been all your life!