

Shield Products

SUPER PREP PRIMER- SEALER (SPPS) SKU50802

A SUMMARY OF BENEFITS FOLLOWS:

1. The halogen content of the polymers lends itself to fire retardant properties
2. Barrier properties make these resins ideal for anti-corrosive primer applications
3. SPPS has excellent Moisture Vapor Transmission rate (MVTR) and gas barrier
4. Properties and has been used in barrier coatings for many years
5. Chemical resistance to certain acids and solvents
6. Controlled crystalline for improved slip and blocking resistance

Some main uses for SPPS emulsions will now be looked at in more detail:

ANTI CORROSIVE PRIMERS

To be most effective, an anti-corrosive paint must have good mechanical properties, good adhesion, good weathering and must be able to prevent corrosion of the metal substrate it is supposed to be protecting. Careful design of the resin to be used can optimize desirable properties, such as high electrical resistance, hence low conductivity as well as low water permeability and low water pick up. A very effective method of reducing the water vapor permeability and pick up is to incorporate a high level of chemically bound chlorine, which lead to the use of acrylate modified VdC copolymers. Primers based on SPPS copolymers would have the following properties:

- **ADHESION:**-primer based on SPPS will adhere well to a range of substrates, including cold-rolled steel, galvanized and phosphate steel, as well as non-metal such as wood, Particle board, concrete and most plastics.
- **MECHANICAL PROPERTIES:** - the primers exhibit a good balance of hardness, tabor abrasion resistance and flexibility.
- **OVER COAT ABILITY:** - Primers are suitable for over coating with conventional alkyd and low voc, high solids Fluoropolymer, epoxy and water based coatings.
- **CHEMICAL RESISTANCE:** - Primer will be resistant to most alkalis, acids, alcohols and glycols. It is not suitable for aromatic solvent resistance or natural oils such as animal and vegetable oils.
- **SALT SPRAY RESISTANCE:** - Primers show excellent resistance in the ASTM B1 17 salt spray and Mebon prohesion test cabinets.
- **BARRIER COATINGS:** - SSPS emulsion is suitable as a barrier coating on a variety of substrates such as paper, board, foil and films. They combine properties such as barriers to water and water vapor, as well as barriers to gases, odors, grease and solvents. The lower Tg of SPPS emulsion also retains high barrier properties after creasing and flexing, due to their softness. The low moisture vapor transmission rate (MVTR) and gas barrier properties of SPPS emulsions is much more advanced than other polymers.

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