

# A·R·C·H·I·T·E·C·T·U·R·A·L

## ROOF COATINGS

### ● **PRODUCT DATA SHEET**

## DynaSHIELD SILICONE LS

### **DESCRIPTION**

ARC DynaSHIELD Silicone LS is a single-component silicone elastomer designed to protect construction surfaces from the effects of weather and moisture. The outstanding features of ARC DynaSHIELD Silicone LS are its high solids content, rapid cure and superior physical properties. ARC DynaSHIELD Silicone LS is designed as a two-coat system consisting of a basecoat with a contrasting-colored topcoat.

### **RECOMMENDED USES**

ARC DynaSHIELD Silicone LS is designed to provide a durable elastomeric protective coating for sprayed polyurethane foam insulation. ARC DynaSHIELD Silicone LS can be used by itself as the complete protective coating membrane. With the addition of ceramic roofing granules embedded into the coating surface, superior abrasion resistance is achieved.

### **ADVANTAGES**

ARC DynaSHIELD Silicone LS dry time may be shortened with the addition of an accelerator package. ARC DynaSHIELD Silicone LS exhibits excellent adhesion to sprayed-in-place polyurethane foam as well as other construction surfaces. ARC DynaSHIELD Silicone LS retains its flexibility and membrane integrity from -80o F to +250o F.

### **WEATHERING & RESISTANCE PROPERTIES**

ARC DynaSHIELD Silicone LS has excellent appearance and good flexibility with no checking, cracking or significant discoloration after 8,000 hours Accelerated Weathering exposure in an Atlas carbon arc weatherometer according to ASTM D-822. ARC DynaSHIELD Silicone LS has excellent heat resistance to 250o F, good salt, acid and solvent resistance, and fair alkali resistance.

### **ADHESION**

ARC DynaSHIELD Silicone LS adheres well to most properly prepared construction surfaces, including spray-applied polyurethane or isocyanurate foam insulation. ARC DynaSHIELD Silicone LS can be re-coated when cured enough to allow light foot traffic or as much as 7 to 10 days between coats.

### **PROPERTIES**

|                   |  |
|-------------------|--|
| COLOR:            | White, Dark Gray, Light Gray, and Tan  |
| HARDNESS:         | 70 Shore A ASTM D-2240   |
| TENSILE:          | 551 psi (+/- 25) ASTM D-412  |
| ELONGATION:       | 186 % (+/- 10) ASTM D-412  |
| PERMANENT SET:    | 1% max ASTM D-412  |
| TEAR STRENGTH:    | 45 p/i ASTM D-624  |
| PERMEABILITY:     | 7.9 perms ASTM E-96  |
| REFLECTANCE:      | Initial: 87 ASTM C-1549  |
| EMITTANCE:        | Initial: 90 ASTM C-1371  |
| SOLIDS:           | Weight 78% +/- 1%  |
| SOLIDS:           | Volume 66% +/- 1%  |
| WEIGHT:           | 11.26 lbs. per gallon  |
| SPECIFIC GRAVITY: | 1.31 at 77°F   |
| FLASH POINT:      | 115° F ASTM D-56   |
| VISCOSITY:        | 4,000 to 6,000 cps.  |
| VOC:              | 248 G/L  |
| STORAGE:          | 6 months from date of manufacture when stored in sealed, unopened containers between 40°F - 80°F |

### **APPLICATION**

ARC DynaSHIELD Silicone LS is designed to be applied through high pressure airless spray equipment. ARC DynaSHIELD Silicone LS theoretical dry film thickness is 10.5 mils when applied at 1 gal. per 100 square feet. The minimum recommended thickness when used as a protective membrane over polyurethane foam is 24 dry mils. ARC DynaSHIELD Silicone LS should only be applied by professional applicators.

Consult ARC for specific application requirements and end uses.

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