

70680/70685

2K, Fast Cure, Low VOC Roof Coating



Product Data Sheet

PRODUCT DESCRIPTION

70680/70685 is a two-component, fast cure, low VOC, fire retardant, aromatic polyurethane coating, designed as a weather protective coating for a wide variety of roof systems including concrete, spray-applied polyurethane foam, single ply membranes and built-up roofs and meets South Coast AQMD standards.

PRODUCT NUMBERS AND COLORS

Standard color is: White Toned

CURED RESIN PERFORMANCE

| Description | Test Method | Results |
|----------------------------------------------|-------------|-------------|
| Tensile Strength | ASTM D412 | 1,200 psi |
| Elongation | ASTM D412 | 340% |
| Permanent Set | ASTM D412 | <10% |
| Tear Resistance | ASTM D1004 | 160 lb/in |
| Water Resistance | ASTM D471 | <2% |
| MVT @ 30 mils | ASTM E96 | 1.3 English |
| Shore A | ASTM D2240 | 60 - 70 |
| Peel Adhesion on Foam | ASTM D903 | >16 PLI |
| Adhesion to Concrete | ASTM D4541 | 250 psi |
| Adhesion to Concrete with (7780/7781 primer) | ASTM D4541 | 400 psi |

The above tested results are typical values. Individual lots may vary up to 10% from the typical value.

PRODUCT DATA

| Description | Test Method | Results |
|-----------------------|-------------|--------------|
| Weight/Gal (mixed) | ASTM D1475 | 11.5 lbs/gal |
| Weight Solids (mixed) | ASTM D5201 | 96.5% |
| Volume Solids (mixed) | ASTM D5201 | 94.6% |
| VOC (mixed) | ASTM D5201 | 47.6 g/L |
| Viscosity (mixed) | ASTM D562 | 130 KU |
| Flash Point | ASTM D3278 | >200°F |
| Sag Resistance | | 25 wet mils |

| Description | Test Method | Results |
|-----------------------------|---------------|-------------|
| Dry to Touch (75°F, 50% RH) | | 2 - 3 hours |
| Pot Life (75°F, 50% RH) | | 4 - 5 hours |
| Solar Reflectance Index | ASTM E1980-01 | 96 |

The above tested results are typical values. Individual lots may vary up to 10% from the typical value.

MIXING

Mix 1 part 70680 (color side) to 1 part 70685 Co-Reactant (clear) by volume. Proper mixing is critical for cured resin performance. Mix as follows:

1. Open 5 gallon pail of 70680 (color side) and scrape down the sides to get all material loose from side of pail.
2. Mix 70680 (color side) for 3-5 minutes or until material is uniform in consistency.
3. Open 70685 co-reactant (clear side) and pour into mixing container.
4. Pour 70680 (color side) into mixing container with 70685 co-reactant (clear side) and mix for 5 minutes with a variable speed drill utilizing a jiffy mixer.

THINNING AND CLEANUP

Thinning of materials is not required under normal application conditions. However, if required, thin material with xylene or PCBTF (VOC exempt reducer) as local VOC regulations allow. Never thin more than 10% without consulting NEOGARD®.

Clean up coating equipment or spills immediately with xylene or PCBTF (VOC exempt reducer) as local VOC regulations allow, carefully observing cautions on coating and thinner labels.

STORAGE

Containers of polyurethane coating should be stored in a cool (70°F) area to insure long shelf life. To prevent container rupture due to very high temperature, keep away from heat and/or open flames.

HEALTH AND SAFETY

Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information. This product is intended for use by properly trained professional applicators only.

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