

OR7001

Product Description

OR7001 is a single component polyurethane primer. OR7001 exhibits high chemical and abrasion resistance for a variety of substrates such as granular rolled roofing, concrete, wood and steel. Its low viscosity allows it to penetrate porous surfaces.

OR7001 can be used as a tie coat primer when applying polyurea and polyurethane coating over an existing coating.

Application Instructions

OR7001 can be applied using a medium nap roller. Apply as uniformly as possible avoiding excessive back rolling and cross rolling will lessen the chance of bubbling.

OR7001 can be applied using single component spray equipment. Consult with your technical representative for specific equipment requirements. The surface and ambient temperature must be between 40°F - 120°F and remain above 40°F until the primer has fully cured, approximately 1-2 hours at 65°F - 75°F. Postpone application when rain and moisture are in the forecast. The material should be brought to a minimum temperature of 65°F before use.

After the primer has cured, a topcoat is required within the 2-hour recoat window at 77°F and 50% RH.

Thinning

Thinning is not recommended.

Mixing

Mix thoroughly before using.

Surface Preparation

All Surfaces must be clean and free of contaminants and be able to provide mechanical adhesion for the coating.

Use a solvent to remove all oils & grease. Any damage to the substrate must be repaired or replaced. Rinse all the cleaning agents from the substrate and allow to dry before priming.

Coverage

Coverage on rough or porous surfaces may be as low as 100 sq. ft. per gallon (one gal./sq.) and on smooth surfaces up to 400 sq/ ft per gallon (1/4 gal./sq.) When coating acrylics, do not let the primer puddle on the surface. Apply at 500-600 sq/ft per gallon.

Clean up

Before product has cured remove unwanted OR7001 with Methyl Ethyl Ketone (MEK).

Typical Physical Properties	Units	Results
Solids by weight		30.20%
Solids by volume		26.12%
Viscosity	cps	50-100
Specific gravity at 77°F (25°C)	g/cm2	0.958
Flash Point		81°F
VOC	g/L	643
Recommend storage temperature		60-100°F (16-38°C)
Shelf life	Un-opened	12 months

Packaging supplied in

1 Gallon Can, 5 Gallon Pail, 55 Gallon Drum

Handling and storage

The reaction of isocyanates with water leads to the formation of insoluble areas and carbon dioxide gas which can result in pressure buildup inside closed containers. Therefore, extreme care must be taken to ensure containers

used for OR7001 remain dry. Containers that have become contaminated with moisture should not be subsequently sealed; otherwise, a hazardous increase in pressure may result. Freshly manufactured OR7001 is an amber liquid. Sedimentation is usually due to contamination from atmospheric moisture or to dimer formation. Reaction from atmospheric moisture can be prevented by storing OR7001 in carefully sealed containers or under a dry nitrogen atmosphere during handling OR7001 must be carefully resealed after each sampling. A small amount of finely divided insoluble solid in the product does not usually cause difficulties in handling or product performance. However, if necessary, the liquid product may be filtered through a suitable inline filter. It is suggested that the filter vessel be of stainless steel with a suitable polypropylene filter bag. The lines should be heated and blown clear with nitrogen after use.

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