



NVISION® PR15 Universal Primer

Technical Data Sheet

Product Description:

NVISION® PR15 Universal Primer from NVISIONCOATINGS LLC is an optical grade primer formulation with tunable mechanical properties and refractive index for polycarbonate, nylon, and other plastic substrates commonly used in the optical industry. NVISION® PR15 is a self-crosslinking aliphatic polyurethane dispersion that forms films exhibiting excellent water and chemical resistance with improved adhesion.

Tunable Performance:

Tensile Strength (psi)	3800-5225
100% Modulus (psi)	395-2500
Elongation (%)	230-995
Refractive Index (nD20)	1.5-1.7

Physical Properties:

pH ~ 8-10 % Solids ~ 6-12 Appearance: Slightly turbid Odor: Amine

Preparation and Application Recommendations:

Prior to and during application, filter NVISION® PR15 through a 0.5-1.0 micron filter. The substrate should be thoroughly cleaned using conventional methods. Apply at humidity levels between 20-60 % RH and temperatures between 20-25°C. The primer will air dry to tack-free within 5 minutes.

Storage and Maintenance:

Maintain the desired % solids using a 1:1 blend of DI water and 1-methoxy-2-propanol. Maintain the pH between 8-10. Do not allow primer to dry on sides of tank. Stability is 6 months from time of shipment, stored in unopened, original containers. Store in the dark at temperatures between 10-30°C. Do not freeze.