



Engineered Polymers International, LLC

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EP-2KSP — Acrylic Polyurethane

Description:

EP-2KSP is a medium hard OH functional solvent free acrylic-methacrylic-ester copolymer emulsion that reacts with aliphatic isocyanates to produce a high gloss, chemical resistant coating. **EP-2KSP** can be used on a variety of substrates such as concrete, wood, metal and plastic for interior and exterior applications. Although designed to be used with PUD or other acrylic emulsions coatings, it can also be used alone.

Key Benefits include:

- High gloss
- Excellent chemical resistance
- Quick drying
- Excellent surface hardness
- Excellent compatibility with polyurethane dispersions and other acrylic emulsions

Typical Properties	Unit	Value
Appearance		White emulsion
Stabilization		Anionic
Dynamic Viscosity Brookfield RVT, Spindle 2, 20 rpm	<i>mPa.s</i>	400 -1000
pH		7.5 - 8.5
Solids Content	%	35
Density	<i>g/cm³</i>	1.07
Weight/Gal	<i>lb/gal</i>	8.91
Solvent content	%	Solvent free
Freeze/thaw stability		No
MFFT	°C	17
Hydroxyl number	<i>mg KOH/g</i>	125
OH-Equivalent weight	<i>g/mole OH</i>	449
Mixing Ratio	<i>B:A</i>	4 : 1
Pot Life	<i>hours</i>	4
Cure Time @ 6 mils	<i>hours</i>	3 @ 75°F

Film Forming:

The MFFT of **EP-2KSP** can be reduced with a variety of co-solvents. The chart below is a list of solvents that can be used as coalescing solvents.

Solvent
Butyl glycol
Butyl diglycol
Dowanol DPM
Dowanol PM
Dowanol DPnB
Dowanol TPnB
Dowanol PnB
Propylene glycol butyl-acetate
Propylene glycol
NMP
Methoxybutanol
Ethanol
Lusolvan FBH
Proglide DMM

Storage:

EPI has determined that the shelf life of **EP-2KSP** is in excess of six months from the date of shipment receipt when the product is stored between temperatures of 5°C to 25 °C in its original packaging. **EP-2KSP** must be protected from freezing.

Safety:

Before using this or any other **EPI** product, consult the MSDS.

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