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## PVAc Redispersible Powder

## EP-5016H

### TYPICAL PROPERTIES

Polymer Type.....	Vinyl Acetate homopolymer
Appearance.....	White Powder
Protective Colloid.....	Polyvinyl Alcohol
Solids Content*.....	99 ± 1%
Ash at 600°C*.....	12 ± 2%
Bulk Density (g/ml).....	0.45 – 0.55
Average Particle Size (microns).....	80

### 55 % Redispersion

Viscosity (cP,25°C).....	1100
pH.....	4 - 6
Tg *(onset,°C).....	30±5
MFFT (°C).....	18±2

\*marked items, are ex-works delivery specification. All other figures are typical physical properties for reference only.

### Introduction

EP-5016H is a standard filler content, water-redispersible vinyl acetate homopolymer powder that is readily dispersible in water and forms stable polymer dispersion.

### Recommended Applications

EP-5016H powder is primarily used in applications that require good adhesion and easy clean up. The multi purpose, low cost redispersible powder is versatile raw material to be used in adhesive applications and construction building materials including construction adhesives, joint compounds and wood putties. When used as a cement modifier the product offers improved workability and extended open time, significantly increases mechanical strength of cementitious compounds: cohesive, compressive, flexural, as well as abrasion resistance. The EP-5016H is compatible with VAE – based redispersible powders, and when blended with them at rational ratio produces cost effective cement modifiers with desired end-use performance properties.

### Special Uses

#### Paper Adhesives

EP-5016H can be used to increase the polymer content of paper adhesives based on polymer dispersion. This enables adhesives to be formulated with increased tack and shorter open times. Because EP-5016M is unplasticised polymer, it can be used in adhesives where coalescing solvents are not required.

#### Gap and Crack Fillers

EP-5016H can be used as the polymer binder in cement-free gap and crack fillers. EP-5016H offers the following benefits:

- 1) redispersion in water that forms homogeneous pastes with a wide range of fillers;
- 2) very good cohesive strength both with gypsum and with carbonate fillers;
- 3) when cured it forms a hard but easy to sand surface which allows an repair to be made.

#### Wallcovering Adhesives

EP-5016H offers the following benefits:

- 1) good dry powder flow which facilitates easy processing and packaging;
- 2) easy dispersion into water without clumping which allows homogeneous mixes to be achieved with minimum effort;
- 3) increases the adhesion of the wallcovering especially under damp and humid conditions;
- 4) improves the ease with which wallcovering can be positioned and realigned.

### Processing

Powder blends containing EP-5016H can easily be mixed with water at the point of application. It is recommended first to measure out the appropriate amount of mixing, i.e. gauging, water. Then add the powdered product with adequate stirring until a homogeneous mixture is obtained. Prolonged mixing can lead to excessive air entrainment which should be avoided. Care should be taken to ensure adequate conditioning occurs before use. It can be blended with other dry ingredients in most conventional mixers. However, because EP-

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**EP-5016H**

5016H exhibit thermoplastic behavior, long mixing times should be avoided, and significant temperature rise caused by strong shear forces should be avoided. For mixing finished products in powder form, one usually places the required amount of mixing water in a suitable vessel and add the powder mixture under agitation. Before application, one should allow the mixture to stand for short a time. Depending on the properties of the other additives, the standing time will be in the range of approximately 1-6 minutes.

### Storage

EP-5016H redispersible powder should be stored at temperatures below 30°C in cool and dry environment while being protected from excessive moisture and humidity. For the best performance it is recommended to use the powder within 6 months, and expedite the use during a summer time. Storage at high temperature and humidity conditions will increase the risk of caking. Opened containers should be used as soon as possible, if not, should be resealed to prevent ingress of moisture from the air.

EP-5016H redispersible powder is supplied in paper bags and should not be stacked. Prolonged heavy pressure may cause caking. Storage under pressure should also be avoided.

### Packaging

25 kg paper bags

Big Bags (sizes on request)

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