

Kao-Seal ® , Kao-Seal AHR Blue Coating

Product Data Sheet

Product Description

Kao-Seal is a water-based coating designed for dust suppression and as an adhesive for fiber products. It can be brushed or sprayed to bond fibers to various surfaces, including metals and textiles. While effective as a temporary adhesive, it loses functionality above 212°F and is meant to hold materials in place until a mechanical or higher-temperature seal is applied.

As a dust suppressant for ceramic fiber products, Kao-Seal reduces airborne fibers during handling, cutting, installation, and removal, minimizing dusting and improving safety.

Kaoseal AHR Blue is a specialized coating for lightweight castables, helping mitigate alkali hydrolysis (AH), a degrading process in non-dried castables. It works well with Kaolite AHR castables for enhanced AH resistance and reduces surface dusting (efflorescence).

With a blue pigment for easy identification, Kaoseal AHR Blue replaces traditional resin-based curing compounds and should not be used alongside them. Apply it with a power sprayer for a thin, even coat soon after castable placement for added protection against AH. If a partial dry out process is required, Kao-Seal AHR Blue should be used as the curing compound and applied prior to the partial dry out.

Features

- Refractory castable sealants to retard alkali hydrolysis
- Spray sealant/dust suppressant for fiber products
- Adhesive for fiber products

Handling

Kao-Seal products are ready to use with no thinning. Before using, stir or shake. The products can be applied either by brushing on or with a spray gun (either a garden sprayer or airless power sprayer type). The airless power sprayer is recommended .

Kao-Seal materials must be protected from freezing to avoid damage. Normal shelf life is minimum 12 months in unopened containers that have been properly stored.

Products	5 gallon pail
Kao-Seal	X
Kao-Seal AHR Blue	X

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Product Name	Kao-Seal	Kao-seal AHR Blue
Fiber Class	RCF	Silica Acid
Material Grade	Coating	Coating
Physical Properties		
Color	clear to opaque white	clear to aqua blue
Classification Temperature °F	200	-
Classification Temperature °C	93	-
Solids, %	~45	~25
Viscosity , centipose @ 77°F (25°C)	~300	~30
pH Level	4.5	10.8
Shelf life, months	12	12
Coverage rate, typical, SF/gal		
refractory sealant against Alkali Hydrolysis	200-300	150-200
dust suppressant	250-500	-
adhesive	200-300	-
Coverage rate, typical, SM/gal		
refractory sealant against Alkali Hydrolysis	16-29	14-16
dust suppressant	23-46	-
adhesive	16-29	-
emissivity , *6.35mm thickness	16-29	-

NOTE:

Avoid Freezing. Freezing will make these products unusable.

The product(s) represented are intended for industrial refractory applications. The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product, and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials.