

# KYMAX<sup>®</sup>

## BASECOAT

### ELASTOMERIC ACRYLIC WATERPROOFING

## Technical Data & Application Instructions

### PRODUCT DESCRIPTION

**KYMAX BASECOAT** is a high solids elastomeric acrylic coating designed for use in conjunction with **KYMAX Topcoat** to provide superior weatherability, ultraviolet resistance, and fire retardancy over roof and wall substrates. **KYMAX BASECOAT** is a single-package product designed for easy application with conventional or airless spray equipment, as well as brush or roller.

### BASIC USES

**KYMAX BASECOAT** was specifically developed for building film thickness and providing waterproofing prior to the application of **KYMAX Topcoat**. The system effectively protects new or existing roof and wall substrates from degradation caused by normal weathering, aging and ultraviolet exposure. **KYMAX Topcoat** is used for protecting flat or sloped roofs, exterior walls, and ambient or hot storage tanks. It can also be used directly over approved substrates.

### COLORS

**KYMAX BASECOAT** is manufactured in standard Cool Gray or White. **KYMAX Topcoat** is available in White, which is certified to meet ENERGY STAR<sup>®</sup>, Cool Roof Rating Council (CRRC) and LEED reflectance criteria. All other colors are custom matched by UNITED to meet specific project requirements. Samples must be submitted for all custom colors.

### PACKAGING & MIXING

**KYMAX BASECOAT** is a single-component material available in 5-gallon (19 liter) pails and 55-gallon (208 liter) drums.

**KYMAX BASECOAT** may appear well mixed, but upon standing will settle into a two-stage suspension. Thoroughly mix all containers using a power mixer for a minimum of 5 minutes prior to application. For 5-gallon pails, use a 3" (7.5 cm) minimum diameter mixing blade; for 55-gallon drum, a 6" (15 cm) minimum diameter blade is recommended.

### TYPICAL PROPERTIES

- Solids by Weight:**  
67% ( $\pm 2$ ) [ASTM D1644]
- Solids by Volume:**  
50% ( $\pm 2$ ) [ASTM D2697]
- Surface Dry Time for Foot Traffic Resistance:**  
5 hours at 75°F (24°C), 50% R.H.  
Cool Gray at 16 wet mils (406 microns)  
Time will increase @ higher humidity
- Tensile Strength:**  
200 psi ( $\pm 20$ ) (1.83 MPa)  
[ASTM D412]
- Elongation:**  
200% ( $\pm 20$ )  
[ASTM D412]
- Hardness:**  
60 to 70 Shore A  
[ASTM D2240]
- Permeance:**  
2.7 US perms at 22 dry mils (155 ng/  
(Pa/s/m<sup>2</sup>) @ 560 microns) [ASTM E96]
- Low Temperature Flexibility:**  
Passes 180° flex over ½" (1.2 cm) mandrel  
@ -5°F (-21°C) [Federal Test Method No.  
141a-6221]
- Temperature Limits For Normal Service Conditions:**  
-18°F to 200°F (-28°C to 93°C)
- Fire Resistance:**  
UL 790 Class "A" classified system over spray-applied polyurethane foam and over **non-combustible** substrates when used with **KYMAX Topcoat**.

## APPLICATION INSTRUCTIONS

**KYMAX BASECOAT** may be applied by either airless spray equipment or rollers. Brushes may be used for touch-up and edging work, or for small areas that are not practical for spray application.

**KYMAX BASECOAT** has been applied utilizing many different brands, types and sizes of airless or conventional spray equipment. Airless spray is best suited for large projects. Use a pump with minimum 1 gallon per minute output and 2,000 psi pressure capability. In-line filter screens should be 60 mesh or larger. Use a reversible, self-cleaning tip with orifice size of .027" to .039" and 40° to 50° fan angle

**KYMAX BASECOAT** should be applied to polyurethane foam surfaces between 24 and 72 hours following final application of the polyurethane foam.

Surfaces to be coated shall be clean and dry, and free of any degradation, grease, oil, dirt or other contaminants that will interfere with proper adhesion. Any physical damage to the existing substrate shall be repaired before coating application commences.

**KYMAX BASECOAT** applied at the rate of one gallon per 100 sq. ft. (.4 l/m<sup>2</sup>) will theoretically yield 8.0 dry mils (203 microns).

The theoretical thickness given for coverage per gallon is based on smooth, non-porous surfaces. Actual gallons required in the field to achieve the minimum dry film thickness will depend upon the surface texture, method of application and weather conditions at the time of application. It is the responsibility of the applicator to apply sufficient material to achieve the minimum dry film thickness required.

**KYMAX BASECOAT** is applied at 1.25 to 4.0 gallons per 100 sq. ft. (0.5 to 2.0 l/m<sup>2</sup>), to achieve a minimum total of 10 to 30 dry mils (254 to 762 microns), depending on the substrate and desired warranty. Consult **KYMAX Application Instructions & Precautions** for details on warranties and thickness requirements.

Each coat of **KYMAX BASECOAT** shall be applied in a direction perpendicular to the previous coat to assure positive coverage. Each coat must be dry and cured before an additional coat is applied. **All surfaces must be uniformly coated and be free from all voids, pinholes and blisters.**

If any form of dirt, sand or pollution fallout is detected on the surface of **KYMAX BASECOAT**, it is necessary to remove this material before applying an additional coat, or before applying **KYMAX Topcoat**.

**KYMAX BASECOAT** is very cohesive and difficult to spray at material temperatures below 60°F (16°C). Store product in a warm area prior to application to bring material temperature to 70°F (21°C) or greater.

Use water and detergent to thoroughly flush equipment. Purge the water from the system using Mineral Spirits. Leave the solvent in the lines for storage. It is not recommended practice to leave **KYMAX BASECOAT** in the pump or hoses.

## LIMITATION & PRECAUTIONS

**KYMAX BASECOAT** should not generally be used over cold storage tanks or buildings where a vapor barrier coating is required. **KYMAX BASECOAT** shall not be used for interior applications in place of a thermal barrier.

**KYMAX BASECOAT** will freeze and become unusable at temperatures below 32°F (0°C). Do not ship or store unless protection from freezing is available.

Do not apply **KYMAX BASECOAT** at temperatures below 50°F (10°C), or when there is a possibility of temperatures falling below 32°F (0°C) within a 24-hour period after application. Cool temperatures and high humidity retard cure. **Do not apply if weather conditions will not permit complete cure before rain, dew, fog or freezing temperatures occur** Do not apply in the late afternoon during Fall conditions.

For specific information on safety requirements, refer to OSHA guidelines and **KYMAX BASECOAT** Material Safety Data Sheet.



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