

Technical Information Sheet

Modular Water Based Bonding Adhesive E

Packaging	Part Number
20 l pail	W563587037EU

Description

The Elevate™ Modular Water Based Bonding Adhesive E is an adhesive specifically designed for wet-mating Elevate RubberGard EPDM membranes onto acceptable, wooden substrates in an indoor environment. Modular Water Based Bonding Adhesive E can also be used as a contact adhesive onto approved insulations and other acceptable substrates, in addition to wood.

Application

Modular Water Based Bonding Adhesive E can be applied in following Elevate system(s): RubberGard™ EPDM.

Preparation

Surfaces that will receive Modular Water Based Bonding Adhesive E must be clean, smooth, dry, free of sharp edges, loose and foreign materials, oil, grease, and other contaminants. The mating surface shall be cleaned with a stiff broom. Restore the adhesive to room temperature (15°-25°C) before use if the product has been exposed to temperatures lower than 15°C for a prolonged period. Exposure to subzero temperatures will make the product unusable. Stir the adhesive thoroughly (to achieve a uniform mix with no sediment on the bottom and no marbling evident) before and during use.

Method of Application

Wet-mated application (only for horizontal)

Water Based Bonding Adhesive can be applied directly over plywood or OSB substrates (only types that are not treated against water absorption). Apply Water Based Bonding Adhesive at a rate of approx. 350 gr/m² over plywood or OSB with a paint roller, taking care to completely cover the plywood or OSB substrate evenly to avoid globs and puddles of adhesive. The EPDM membrane shall be mated immediately after the bonding adhesive is applied by rolling the membrane in place over the plywood or OSB. To ensure proper adhesion, compress the bonded portion of the sheet to the substrate with a stiff push broom or heavy roller.

Caution: the wet-mated application method is only applicable when the membrane is bonded indoors, not exposed to any wind stresses for 48 hours and not exposed to freezing temperatures for minimum 48 hours after mating of EPDM to the substrate.

Two-side contact application

Apply Water Based Bonding Adhesive first onto the substrate and later to the exposed underside of the EPDM membrane to avoid over-drying the adhesive on the EPDM side. It is recommended that the application temperature is above 5°C.

Apply Bonding Adhesive evenly avoiding areas of accumulation. Apply the Bonding Adhesive with a paint roller, and roll the adhesive onto the mating surfaces. Ensure complete uniform coverage of both surfaces that will be adhered. Care must be taken not to apply Bonding Adhesive over seam areas.

Allow adhesive to flash off until tacky (time depending on ambient air conditions but may take up to 45 minutes) before mating the surfaces. The adhesive must become translucent. Test the adhesive for its dryness, using the touch-push test procedure. Do not over-dry. Roll the membrane into the substrate. Ensure a strong bond by compressing the EPDM to the substrate with a stiff push broom or heavy roller. Very porous substrates (rough wood, masonry, concrete block) may require two coats of Bonding Adhesive, to ensure proper adhesion. This can be determined by testing a small area. Check by adhering a small piece of membrane to the porous substrate to verify the bonding strength.

Refer to the Elevate technical guidelines for specific installation instructions.

Coverage

Coverage rates depend on the smoothness of the substrate and method of application. Between 2.5 and 3 m² per liter for wet mating, between 2.0 and 2.5 m² for contact Adhesive application.

Some surfaces are more uneven and porous and will result in lower coverage rates, while smoother substrates are less porous and will, therefore, result in higher coverage rates.

Characteristics

Technical	
• Base	Acrylic dispersion
• Color	White (when first applied) Translucent (when carrier evaporates)
• Solids	58 ± 3%
• Viscosity	36000-44000 cp
• Specific gravity	1.02
• Flash Point	> 100°C

Storage

Store in original unopened containers at moderate temperatures (15°C-25°C) in a dry, well-ventilated area. Protect from direct sunlight. If necessary, use an insulated box to maintain the product at moderate temperatures during transport to the job site, before and during application. This will assure the appropriate viscosity, efficiency, and performance of the adhesive.

Shelf Life

12 months can be expected if stored in above-mentioned conditions. Subzero temperatures will make the product unusable. Shelf life information is only a recommendation and not a fact of life. The real expiration date highly depends on the history of storage and handling of the accessories. Once opened, use within 48 hours.

Disposal

Make sure that the pail is empty before disposal. Adhesive cannot be disposed in drains. Dispose content and/or pail in accordance with national regulations.

Precautions

Refer to Material Safety Data Sheet. For professional use only. Use only in well-ventilated areas. Keep pail closed when not in use. Avoid prolonged contact with skin and eyes. Do not contaminate with foreign materials and avoid contact with water sensitive materials and strong oxidizers. Keep out of reach of children. Thinning is not allowed.

Note:

This document is meant only to highlight Elevate products and specifications based on latest knowledge and experience and is subject to change without notice. Above mentioned values are based on tested samples and may vary within applicable tolerances. For latest and complete product and detail information, please refer to the technical information posted on www.holcimelevate.com. Holcim Solutions and Products EMEA BV ("Holcim") takes responsibility for furnishing quality materials which meet Holcim's published product specifications. As neither Holcim itself nor its representatives practice architecture, Holcim offers no opinion on and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. The selection of the appropriate product and its correct application is the responsibility of the customer and not of Holcim. No Holcim Representative is authorized to vary this disclaimer.