



Physical Properties

Color Clear	Maximum VOC 325 g/l	Peel Strength - Glass 5 p.i.w. min. (22N)
Elongation (Initial) 200% min.	Maximum VOS 2.71 lbs/gal	Shore A Hardness 55 max.
Flash Point 49°F	Peel Strength - Aluminum 5 p.i.w. min. (22N)	Specific Gravity @ 77° F (25°C) 1.06

Description

HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H is a one-part, low cost, high-performance thermoplastic sealant. The cured sealant exhibits good physical properties including excellent adhesion, to a variety of construction materials including marine surfaces. It possesses rubber-like characteristics and can be compressed or extended. **HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H** is also non-staining. **HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H** is used in the construction field for sealing and adhesive applications. It is available in non-sag consistency for application by caulking gun in vertical and horizontal joints.

Features:

- Wet or dry
- Highly elastic
- Excellent low temperature flexibility
- Excellent adhesion to glass, aluminum, brick and practically all building materials
- Non-staining
- Non-sagging consistency
- Skins over, tack free within 30 minutes
- Serviceable over a wide temperature range from -20°F to 160°F (-29°C to 71°C), does not attack or adversely affect such building materials as glass, brick, aluminum
- No primer needed

Usage

- Channel glazing
- Porcelain panel construction
- Quarry tile and masonry joints on terraces, decks, etc.
- Sealing and bedding applications subject to racking and distortion on ships, boats, bus, truck and trailer bodies
- Tent patching
- Window and door sealant

Coverage

14 lineal feet of 3/8" bead per 10.1 fl. oz. cartridge.

Surface Preparation

HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H can be applied to dry or damp surfaces that are free from oil, grease, wax, dust, corrosion, or any material that may interfere with obtaining optimum adhesion. Do not apply to surfaces that are continually

immersed in water.

Concrete and Masonry: Fresh concrete should be fully cured and dried. This may require as much as 3 or 4 weeks. If surfaces are dusty, they should be blown or brushed free and cleaned. Mold release agents or curing agents should be removed, as they will prevent good adhesion. If the surface has been exposed to oil based caulking, remove all material and sandblast or cut surface back to remove area of oil penetration. No primer necessary.

Aluminum and Other Non-Ferrous: Unless little movement will be encountered, remove any protective lacquer film with clean lacquer thinner. If the surface has previously been sealed or exposed to the air for a period, remove all previous compounds or surface oxidation via chemical treatment, solvent, or by sandblasting, wire brushing, etc. No primer is necessary.

Steel: Remove all corrosion or coatings either by chemical treatment, solvent or by sandblasting, wire brushing, etc. If chemical treatments are necessary, rinse thoroughly. No primer necessary.

Glass/Fiberglass: Wipe, if necessary, the surfaces to be sealed with clean, oil-free solvent and dry thoroughly. No primer necessary.

Wood: Remove all paint, other loose coatings. Sand to provide a good, clean surface. No primer necessary, not even on oily wood such as teak.

Joint Dimensions: **HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H** can be used in openings 1/8" x 1/8" (0.32 cm x 0.32 cm) to approximately 1/2" x 1/2" (1.27 cm x 1.27 cm).

Back-up Material: For good installation, when openings are greater than the desired depth, they should be packed with a supplementary material. For this purpose, backer rod joint filler is available and can be used.

Application

For neatness of joint, adjacent surfaces should be masked with tape. Apply **HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H** in the joint from the bottom up, filling completely and avoiding any entrapped air. Tool the surface for appearance and insure adequate adhesion between the **HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H** and the joint sides. Dry tooling is preferred. As soon as application and tooling are completed, remove masking tape. Typical full cure is attained after 3 to 7 days at room temperature for a 3/8" to 1/2" max applied sealant thickness.

Limitations: Do not use on insulated glass panels, laminated glass edges and polystyrene. Not recommended for interior use in occupied spaces.

Precautions

Keep away from heat, sparks and open flame. Avoid inhalation of vapors and contact with eyes and skin. Keep away from food. Provide adequate ventilation.

Cleanup

Complete clean-up before **HE212 - CRYSTAL CLEAR ALL PURPOSE PATC H** cures with mineral spirits. Clean hands with a waterless hand cleaner.

Caution

WARNING! FLAMMABLE, TOXIC MATERIAL. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE IRRITATION TO SKIN AND EYES. READ MATERIAL SAFETY DATA SHEET BEFORE USING THIS PRODUCT.

FIRST AID:

EYE CONTACT: Immediately flush eyes with water for 15 minutes. **SKIN CONTACT:** Wash affected area thoroughly with soap and water. **INHALATION:** If overcome by fumes, give patient air. **INGESTION:** If swallowed, do not induce vomiting. For over-exposure, seek medical attention immediately.

WARNING: This product contains detectable amounts of chemicals known to the State of California to cause cancer, or birth defects, or other reproductive harm.

Employers should obtain a copy of the **Material Safety Data Sheet (MSDS)** from your supplier at the toll free number or website below.

Product Sizes

Limited Warranty

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FOR A PARTICULAR PURPOSE. MANUFACTURER SHALL HAVE NO LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM ANY DEFECTS OR ANY DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. THIS LIMITED WARRANTY PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT.**