

Ecolink Products Group, Inc.
Environmentally Easy on the Earth
280 Nelson Street, Suite 226, Vancouver, BC V6B2E2
Phone: 604-270-0480 Fax: 604-270-0448
www.ecolinkgroup.com

PRODUCT DESCRIPTION:

ECO WELD is a two component 100% solid, aliphatic polyurea based joint sealant.
ECO WELD is a self-leveling.
ECO WELD is designed to protect interior horizontal concrete expansion.
ECO WELD controls joints from spalling, chipping, and breakdown.
ECO WELD displays fast cure times and excellent adhesion to concrete.
ECO WELD can be applied at temperatures ranging -30° F to 250°F.
ECO WELD displays excellent chemical resistance and water insensitivity.
ECO WELD is thermally stable at high and low temperatures.
ECO WELD may also be used under traditional floor coatings or tiles to smooth the joints.
ECO WELD provides protections from cracking and sinking.
ECO WELD replaces cracked or sinking non-elastomeric joint sealants.
ECO WELD has outstanding color stability.

PRIMARY APPLICATIONS:

ECO WELD was designed to protect against the abuse to concrete joints caused by heavy load transfers from such items as forklifts, steel-wheeled carts and trash dumpsters.

Some typical uses include:

Concrete Control / Expansion Joints
Concrete Repairs
Cold Storage Facilities
Merchandise Distribution Centers
Home Improvement Stores
Bridge Headers
Warehouse Floors
D.O.T. Pothole Road Repair
U.S.D.A. and F.D.A. Acceptable

TYPICAL PHYSICAL PROPERTIES:

Tensile Strength (PSI) ASTM D412 1250
Elongation (%) ASTM D412 450
100% Modulus ASTM D412 1100
Tear Strength (PLI) ASTM D412 350
Hardness (Shore A) ASTM D2240 85A (Range of durometer can be adjusted).
Flexibility (1/ 8 “ Mandrel) ASTM D1737 Pass
Flashpoint (°F) ASTM >200
Pensky-Martin Taber Abrasion (mg loss) ASTM D4060 20.5
Cs18 Wheel: 1 kg per 1000 cycles
Viscosity B Side CPS 350, Viscosity A Side CPS 650

TYPICAL PROCESSING PROPERTIES:

Gel Time minutes 2, Tack Free Time minutes 10, Open to Industrial Traffic minutes 30

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INSTALLATION RECOMMENDATIONS:

ECO WELD adheres well to sound concrete substrates. All surfaces should be free of moisture, loose particles and debris. It is advisable to utilize a 3/8" x 32 element-mixing wand to insure proper backpressure and mixing characteristics. Chloride, moisture, and pH levels should be checked prior to application.

NEW CONCRETE

Interior Control Joints/Expansion Joints – The concrete should be allowed to cure for a minimum of 28 days. Any moisture present in the joint should be eliminated prior to installation. Using a diamond blade saw, saw the joint vertically to 90 ° angles to a minimum depth of 1 inch. The joint should be widened slightly to ensure adhesion to freshly opened concrete. Care should be taken not to adversely affect adhesion by “burnishing” the sides of the joint with a grinder. After sawing or grinding, care should be taken that minimal amounts of dust and debris are left over in the joint. The joint should be vacuumed using a common shop vacuum to remove as much dust and debris as possible. In some cases, closed cell joint backer can be used to prevent “sinkers” or continuously running material. It should be noted that the use of joint backer does not provide optimum joint protection. It may be necessary to stop “sinkers” by making several passes over the joint and allowing the material to cure in between passes. **ECO WELD** should be placed in the joint full depth, overfilled, and allowed to cure for a minimum of ten minutes before shaving level with the concrete.

AGED CONCRETE

Interior Control Joints/Expansion Joints – Remove all existing joint sealer and joint backer. Any moisture present in the joint should be eliminated prior to installation. Using a diamond blade saw, saw the joint vertically to 90 ° angles to a minimum depth of 1 inch. The joint should be widened slightly to ensure adhesion to freshly opened concrete. Care should be taken not to adversely affect adhesion by “burnishing” the sides of the joint with a grinder. After sawing or grinding care should be taken that minimal amount of dust and debris are left over in the joint. The joint should be vacuumed using a common shop vacuum to remove as much dust and debris as possible. In some cases, closed cell joint backer can be used to prevent “sinkers” or continuously running material. It should be noted that the use of joint backer does not provide optimum joint protection. It may be necessary to stop “sinkers” by making several passes over the joint and allowing the material to cure in between passes. **ECO WELD** should be placed in the joint full depth, overfilled, and allowed to cure for a minimum of ten minutes before shaving level with the concrete.

SPALLS/BLOWOUTS:

Remove all existing materials from the spall or blowout. Any moisture present in the spall should be eliminated prior to installation. Using a diamond blade saw, saw the joint vertically to 90° angles to a minimum depth of 1 inch. The spall should be widened slightly to ensure adhesion to freshly opened concrete. Care should be taken not to adversely affect adhesion by “burnishing”

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the sides of the joint with a grinder. After sawing or grinding, care should be taken that minimal amounts of dust and debris are left over in the spall. Fill the spall/blowout with dry rock filler (i.e. dry pea gravel if required) to one inch of the surface. Fill the remaining void to surface level with the **ECO WELD**.

RANDOM FRACTURES:

Remove all existing joint sealer and joint backer. Any moisture present in the joint should be eliminated prior to installation. Using a diamond blade saw, saw the joint vertically to 90 ° angles to a minimum depth of 1 inch. The joint should be widened slightly to ensure adhesion to freshly opened concrete. Care should be taken not to adversely affect adhesion by “burnishing” the sides of the joint with a grinder. After sawing or grinding, care should be taken that minimal amounts of dust and debris are left over in the joint. The joint should be vacuumed using a common shop vacuum to remove as much dust and debris as possible. In some cases, closed cell or continuously running material. It should be noted that the use of joint backer does not provide optimum joint protection. It may be necessary to stop “sinkers” by making several passes over the joint and allowing the material to cure in between passes. **ECO WELD** should be placed in the joint full depth, overfilled, and allowed to cure for a minimum of ten minutes before shaving level with the concrete.

APPLICATION NOTES:

It is very important to maintain constant pressures while installing **ECO WELD**. A variation in pressures can result in loss of properties, poor color retention and bubbling.

REPAIRS AND MAINTENANCE:

Repairs to divots caused by unforeseeable abuse can be repaired very easily. The damaged area should be removed to sound **ECO WELD** and concrete. It may be necessary to remove **ECO WELD** with a pocketknife or pneumatic saw and should include removal of all damaged materials to the fresh concrete. The damaged area should be squared to 90° and solvent wiped with acetone. **ECO WELD** should be placed in the damaged area.

CLEAN-UP/DISPOSAL:

Cured product may be disposed of with out restriction. The uncured isocyanate and resin portions should be mixed together and disposed of in a normal manner. “Drip-free” containers should be disposed of in accordance with local, province/state and federal laws.

SHELF LIFE AND STORAGE:

Six months in factory delivered unopened drums. Keep away from extreme heat, cold, and moisture. Maintain at a proper storage temperature of 60°F - 80°F. The components used in **ECO WELD** have been specially formulated to withstand low temperature applications. The material can be stored at temperatures as low as 10° F with no gelation of the components. However, it is recommended to warm the material to a minimum of 60° F before application.

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SAFETY AND HANDLING:

Refer to MSDS sheets.

WARRANTY:

The technical data and any other printed information furnished by the **Ecolink Products Group, Inc.** is true and accurate to the best of our knowledge. **ECO WELD** conforms to in-house quality control procedures and should be considered free of defects. Due to the wide range of applications of this product, it is impossible to assume responsibility for any errors in regard to application, coverage, workmanship, over-spray or injuries resulting from the use of **ECO WELD**. The **Ecolink Products Group, Inc** makes no warranty, expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.