



Using DuraQuartz® LW

PLEASE READ THESE INSTRUCTIONS AND MATERIAL SAFETY DATA SHEET (MSDS) CAREFULLY PRIOR TO USE

ENECRETE® DuraQuartz® LW is a three component, 100% solids, concrete repair compound specifically formulated and precisely engineered to provide solutions to even the most difficult concrete repair and protection problems.

ENECRETE® DuraQuartz® LW is extremely versatile. It can be mixed to any consistency - from a viscous liquid to a stiff mortar. DuraQuartz® LW is not only for concrete; it will bond to marble, stone, slate, terrazzo, tiles and even metal!

SURFACE PREPARATION

ENECRETE® DuraQuartz® LW should only be applied to clean, dry, firm and well roughened surfaces.

1. Remove all loose material and surface contamination.
2. Depending on the surface, solvent clean and/or remove contamination by abrasive blasting, steam cleaning, pressure washing, or other suitable means.
3. After removing all surface and sub-surface contamination, flush the area as necessary and allow to dry completely.

PRIMING THE SURFACE

ENECRETE® DuraQuartz® Primer is supplied in each DuraQuartz® LW system. Pour the contents of the Primer Activator container into the Primer Base container and mix thoroughly. Apply the mixed Primer to the area to be coated with DuraQuartz® LW using a brush or a roller. Use only enough Primer to "wet" the surface; do not flood or pool the Primer. All the Primer should be used within 20 minutes of mixing. Overcoating with DuraQuartz® LW should begin immediately after Priming and should be completed within two hours.

MIXING AND APPLICATION

For your convenience, the ENECRETE® DuraQuartz® LW Base, Activator and Aggregate have been supplied in precisely measured quantities to simplify mixing of full units. Should a small amount of material be required, measure out 5 parts Base and 2 parts Activator by volume (5:2, v/v) and add Aggregate until the desired consistency is achieved.

To facilitate mixing of full units, a mechanical mixing device is strongly recommended. Combine the Base and Activator liquids in the large, plastic bucket and, with the mixer running, slowly add the Aggregate. Using all the Aggregate will yield a stiff, mortar-like paste; less Aggregate will result in a viscous fluid consistency.

Apply the mixed DuraQuartz® LW to the prepared and Primed surface using a trowel, putty knife, or other appropriate tool, pressing well to insure intimate contact and force out any air entrapped as a result of the mixing technique and/or device used.

Technical Data

| | | |
|--|--|-----------|
| Volume capacity per 5 kg | 400 in ³ / 6550 cc | |
| Mixed density | 0.027 lbs per in ³ / 0.74 gm per cc | |
| Coverage rate per 5 kg @ 0.25 in / 6mm | 12 ft ² / 1.1 m ² | |
| Shelf life | Indefinite | |
| Volume solids | 100% | |
| Mixing ratio | Base | Activator |
| By volume | 5 | 2 |
| By weight | 2.4 | 1 |

Working Life & Cure Times

| Ambient Temperature | Working Life | Light Load | Full Mechanical | Chemical Immersion |
|---------------------|--------------|------------|-----------------|--------------------|
| 41°F 5°C | 3 hrs | 3 days | 7 days | 10 days |
| 59°F 15°C | 90 min | 6 hrs | 36 hrs | 7 days |
| 77°F 25°C | 60 min | 4 hrs | 24 hrs | 4 days |
| 86°F 30°C | 30 min | 3 hrs | 16 hrs | 3 days |

Physical Properties

| | Typical Values | Test Method |
|---|----------------------------------|-------------|
| Compressive strength | 5,000 psi 350 kg/cm ² | ASTM C-109 |
| Hardness-Shore D | 57 | ASTM D-2240 |
| Elcometer adhesion - to cementitious and mineral type substrates is generally greater than the cohesive strength of such materials. | | |

Chemical Resistance

| | | | |
|--------------------------------------|----|-----------------------------------|----|
| Acetic acid (0-5%) | EX | Methyl alcohol | G |
| Acetone | G | Methyl ethyl ketone | G |
| Ammonia solution (0-10%) | EX | Nitric acid (0-10%) | G |
| Aviation fuel | EX | Palmitic acid | EX |
| Butyl alcohol | G | Phosphoric acid (0-5%) | EX |
| Calcium chloride | EX | Phosphoric acid (5-10%) | G |
| Crude oil | EX | Potassium chloride | EX |
| Diesel fuel | EX | Propyl alcohol | G |
| Ethyl alcohol | G | Sodium chloride | EX |
| Gasoline | EX | Sodium hydroxide | EX |
| Heptane | EX | Sulfuric acid (0-50%) | EX |
| Hydrochloric acid (0-10%) | EX | Tannic acid | EX |
| Hydrochloric acid (10-20%) | G | Toluene | G |
| Kerosene | EX | Transformer oil | EX |
| Lactic acid (0-10%) | G | Xylene | EX |

EX - Suitable for most applications including immersion.
G - Suitable for intermittent contact, splashes, etc.

HEALTH & SAFETY

Every effort is made to insure that ENECON® products are as simple and safe to use as possible. Normal industry standards and practices for housekeeping, cleanliness and personal protection should be observed. For further information and guidance, please refer to the detailed MATERIAL SAFETY DATA SHEETS (MSDS) supplied with the material and also available on request.

CLEANING EQUIPMENT

Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

TECHNICAL SUPPORT

The ENECON® engineering team is always available to provide technical support and assistance. For guidance on difficult application procedures or for answers to simple questions, call your local ENECON® Fluid Flow Systems Specialist or the ENECON® Engineering Center.

All information contained herein is based on long term testing in our laboratories as well as practical field experience and is believed to be reliable and accurate. No condition or warranty is given covering the results from use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept liability if the desired results are not obtained.

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