ENECRETE®

DuraQuartz

The finest concrete repair and protection system available.

- Extraordinary
 Adhesion
- Outstanding Compressive Strength
- 100% Solids
- Safe & Simple
 To Use

ENECRETE® DuraQuartz[®] is the professional's choice for repairing critical areas subject to shock, impact, abrasion and chemical attack such as: containment dikes and troughs: spillways; chemical loading, storage and transfer areas; pump bases; anchor bolts; setting and grouting tiles: etc.

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

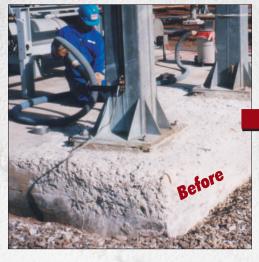
Bonds to...

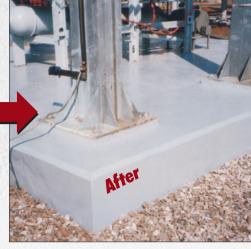
- Concrete
- Marble
- Stone
- Slate
- Terrazzo
- Tiles
- Metal
- · Wood













ENECON

Corporation
The Fluid Flow
Systems Specialists.

www.enecon.com

Toll Free: 888-4-ENECON

Tel: 516 349 0022 · Fax: 516 349 5522 Email: info@enecon.com

6 Platinum Court · Medford, NY 11763-2251

Technical Dat	ta		
Volume capacity per 15 kg.		400 in ³ / 6580 cc	
Mixed density		0.082 lbs per in ³ / 2.28 gm per cc	
Coverage rate per 15 kg. @ 0.25 in / 6mm		12 ft² / 1.1 m²	
Shelf life		Indefinite	
Volume solids		100%	
Mixing ratio	Base	Activator	
By volume	5	2	
By weight	2.4	1	

Cure	Times				
	oient erature	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		pical Values	Test Method	
Compressive strength	15,500 psi	1085 kg/cm ²	ASTM C-109	
Compressive modulus	640,000 psi	44,800 kg/cm ²	ASTM C-109	
Compressive stress	13,000 psi	910 kg/cm ²	ASTM C-109	
Flexural modulus		21,700 kg/cm ²	ASTM D-790	
Coefficient of Expansion	3.5x10 ⁻⁶ in/°C		ASTM D-696	
Izod impact strength	0.5 ft lbs/in	0.27 j/cm	ASTM D-256	
Hardness-Shore D	88		ASTM D-2240	
Tensile shear adhesion - steel 1900 psi 133 kg/cm² ASTM D-1002				

Elcometer adhesion - to cementitious and mineral type substrates is generally greater than the cohesive strength of such materials.

Surface resistivity	1 x 10 ¹⁵ ohms	ASTM D-257
Volume resistivity	1 x 10 ¹⁵ ohm/cm	ASTM D-257
Dielectric strength	210 volts / mil	ASTM D-149
Dielectric constant	7.5	ASTM D-150



Using DuraQuartz

Surface Preparation - ENECRETE® DuraQuartz® 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® 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® 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® should begin immediately after Priming and should be completed within two hours.

Mixing & Application - For your convenience, the ENECRETE® DuraQuartz® 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® 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.

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. Please refer to the detailed MATERIAL SAFETY DATA SHEETS (MSDS) supplied with the material (also available on request) for more information.

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.

Copyright © 2012 by ENECON® Corporation. All rights reserved. No part of this work may be reproduced or used in any form or by any means - graphic, electronic or mechanical including photocopying, recording, taping or information storage and retrieval systems - without written permission of ENECON® Corporation.