

Chemcrete Regular

Concrete Rebuilder

GENERAL DESCRIPTION

CHEMCRETE REGULAR is rugged and durable trowel grade material designed for the patching, filling, or the rebuilding of concrete, stone or other cementitious types of materials. It provides excellent abrasion and chemical resistance and can be applied at thickness of up to two inches. Greater thickness can be obtained by using additional fill material.

FEATURES

- Good chemical and thermal resistance
- Good resistance to abrasion
- Excellent impact resistance
- Readily cures at low temperatures and high humidity

PACKAGING

1 gal. units

COVERAGE

CHEMCRETE REGULAR has the consistency of a heavy paste and can be applied up to 2000 mils per coat. Theoretical coverage at 40 mils is 29 cubic inches per kg. The **CHEMCRETE REGULAR** material can be overcoated with any of the **DUROMAR** materials for smoothness or added chemical resistance.

MIXING RATIO

2.7 parts base (B) to 1 part (A) hardener by weight
2 parts base (B) to 1 part (A) hardener by volume

POT LIFE

For a 1 gallon unit, mix at 70° F, pot life is approximately 30 minutes. Higher temperatures or larger mass will shorten this time, lower temperatures or smaller mass will extend it. Pot life can also be extended by spreading the mass out to dissipate heat.

COLORS

CHEMCRETE REGULAR is light grey in color.

TECHNICAL DATA AND INFORMATION

Basic Chemical Resistance at Room Temperature:

Inorganic Acids	Excellent
Organic Acids	Excellent
Solvents	Excellent
Alkalis	Excellent
Salts	Very Good
Alcohols	Good
Hydrocarbons	Good

Typical Physical Properties of Cured System:

Density	2.1
% Solids	100
Flexural Strength @ 70°F	17,000 psi
Tensile Strength @ 70°F	9,000 psi
Tensile Shear @ 70°F	1,700 psi
Max. Dry Operating Temp	250°F
Compressive strength	16,000 psi
Operating pH Range	1.5-14.0

SURFACE PREPARATION

- For maximum adhesion, material should be applied to a firm, clean, dry and abraded surface.
- Clean greasy, oily or waxed surfaces with suitable solvent before applying material.
- Best results will be obtained by abrasive blasting of the surface.
- If blasting is impractical, water blasting, acid etching, or grinding can also be used.

MIXING

Mix ALL of Part A with ALL of Part B in the Part B bucket. Mix for about 2 minutes and add to a clean and dry 5 gallon pail. Mix the sand into the resin mixture until all the sand is wetted with resin, about 2-3 minutes. The product is now ready for immediate use. If the materials are cold, warm them to 70°F before mixing.



QUALITY SYSTEM
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ISO 9001:2000



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CLEANUP

All mixing and applications tools should be immediately wiped or scraped clean when finished with using.

APPLICATION

CHEMCRETE REGULAR is best applied with a squeegee, trowel or the plastic applicator supplied with the kit. Press material thoroughly into substrate and insure a completely wetted out surface. Build up to the required thickness with a second pass. Large holes may be filled with gravel or other suitable fill to reduce material usage.

For best results, do not apply:

- When temperature is below 40° F.
- When humidity is over 95%
- When there is moisture on the surface
- When surface temperature is not 5° F above dew point

OVERCOATING

For thicker buildup, two or more coats may be employed. **CHEMCRETE REGULAR** may be overcoated with other **DUROMAR** materials such as **EAC** or **EXP** for enhanced smoothness or increased chemical resistance. Overcoating may begin as soon as the first coat is firm enough to accept a second coat. In high humidity or cold temperatures a blush may develop which should first be wiped down with clean water. The following table is an approximate guide to the earliest and latest times an overcoat may be applied:

CHEMCRETE REGULAR Overcoating Window

55°F	70°F	80°F
2-6 hrs.	1-4 hrs.	1-2 hrs.

At 70°F, if 4 hours have elapsed or the material is dry to the touch, it must be roughened before overcoating. The preferred method is a light abrasive brush blasting. Other treatments are light sanding, grinding or wire brushing.

Q/C

The material should be visually inspected just after application and touched up where necessary. Because of the concrete surface, Q/C techniques are limited. Therefore extreme care must be used when inspecting the surface.

FORCE CURING

Force cures are recommended for severe service conditions as both the physical and chemical properties are enhanced. Force curing should not start until material has firmly set.

Recommended Force Cure Schedule:

- 1 hour at 250° F
- 4 hours at 180° F
- 8 hours at 120° F

STORAGE

Store in dry area in closed containers between 50°F and 110°F. Shelf life at these conditions is greater than one year.

HEALTH AND SAFETY

READ AND UNDERSTAND ALL MATERIAL GIVEN IN THE MSDS SHEETS BEFORE USING THE PRODUCT.

CHEMCRETE REGULAR DOES NOT CONTAIN ANY FLAMMABLE MATERIAL OF ANY KIND. HOWEVER, THE MATERIAL IS COMBUSTIBLE. IN THE EVENT OF A FIRE, DRY POWDER, FOAM, OR CARBON DIOXIDE FIRE EXTINGUISHERS SHOULD BE USED. FIRE FIGHTERS SHOULD WEAR RESPIRATORS.

USE PROTECTIVE GLOVES AND EYEGLASSES WHEN USING.

USE IN AREAS OF GOOD VENTILATION.

LIMITED WARRANTY

All recommendations covering the use of this product are based on past experience and laboratory findings. Methods or conditions of application and use of the product are beyond our control. We assume responsibility only for the uniformity of our product within normal manufacturing balances.

All Duromar products are formulated based on over 25 years of experience, laboratory tests, material data, field installations, and technical publications, which we believe to be, to the best of our knowledge, accurate and reliable. This information is intended to be used for guidance only. Because the only true reliable test is one that is in actual operation, Duromar will make available at no charge samples of materials for that testing purpose. Duromar, Inc. has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Duromar, Inc. does, therefore, not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise). The data contained herein is liable to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues, and it is, therefore, the user's responsibility to ensure that this sheet is current prior to using the product.

Rev. 11/07



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