

Chemcrete Super Floor Resurfacer

GENERAL DESCRIPTION

CHEMCRETE SUPER is a specially formulated, 100% solids, epoxy novolac flooring material, used for thick-film floors where additional chemical resistance is required. This trowel applied flooring can be applied up to ½ inch in a single coat and cures down to 50 °F. **CHEMCRETE SUPER** can be topcoated with **DF-4301** to provide additional chemical resistance to a wide range of chemical environments.

FEATURES

- Outstanding chemical resistance
- Excellent resistance to abrasion
- Economical

PACKAGING

- Available in a 1, 2, and 4 gal unit
- Units can be purchased with or without sand
- 1 gal unit requires 9.5 lbs (4.3 kg) of sand
- Unit volume based on total mixed volume after addition of sand

MIXING RATIO

Actives:

2.2 parts base (B) to 1 part (A) hardener by weight

1.6 parts base (B) to 1 part (A) hardener by volume

Sand:

1.1 parts Sand to 1 part Actives by weight

****Mix ratios based on washed, dry, size 00 sand**

POT LIFE

Pot life for a 1 gallon unit mixed with sand is about 35 minutes at 70° F. Higher temperatures or larger volumes will shorten this time. Lower temperatures or spreading out the mix will extend the pot life.

COLORS

CHEMCRETE SUPER is grey in color.

TECHNICAL DATA AND INFORMATION

Basic Chemical Resistance at Room Temperature:

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

Typical Physical Properties of Cured System:

Density	1.86
% Solids	100
Flexural Strength @ 70°F	5,400 psi
Tensile Strength @ 70°F	6,000 psi
Max. Dry Operating Temp	350 °F
Compressive strength	14,500 psi
Operating pH Range	0 - 14.0

COVERAGE

Chemcrete Super has a theoretical coverage of 16 sqft per gallon at 100 mils DFT

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 or chemical etching the surface to remove all laitance and give a surface profile.
- Strongly recommend using **HPL-1301** penetrating primer to provide additional adhesion and to prevent concrete outgassing.



QUALITY SYSTEM
REGISTERED TO
ISO 9001:2000



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MIXING & APPLICATION

Duromar recommends the use of **HPL-1301** penetrating primer when applied directly over concrete. This will prevent the concrete from outgassing and provide better adhesion.

Always use complete units to ensure correct mix ratio.

Pour the entire content of Part A (Hardener) into Part B (Base) and mix thoroughly. Once mixed, add ½ the recommended sand and mix. Add the remaining sand mix 1 – 2 minutes. The amount of sand can be adjusted to reach the desired consistency.

Material temperature should be between 70 °F and 95 °F and surface temperature at least 50 °F.

Use a trowel or screed rake to spread the mixture over the desired area. Additional sand can be broadcast onto the floor within 5-10 minutes of application if the sand appears to be settling or a more anti-slip finish is required.

- Min. Thickness/Coat (mils) 50
- Max. Thickness/Coat (mils) 500
- Number of Coats 1-2
- Min. Application Temperature (°F) 50

CLEANUP

Most solvents and commonly used thinners such as MEK, acetone, xylene, I,I,I trichloroethane, and safety solvents such as Ensolv, etc., can be used for cleaning tools and equipment. However, as many of these materials are flammable or present other safety hazards, the user should read the MSDS for these materials before using. In no event should these materials be used to clean material from the skin, eyes or clothing.

OVERCOATING

Vacuum, sweep, or otherwise remove any loose sand from the above surface.

CHEMCRETE SUPER Overcoating Window

50 °F	70 °F	90 °F
16 - 120 h	8 - 120 h	4 - 60 h

CURING @ 70 °F

- Dry to Touch (hours) 8
- Functional Cure (hours) 36
- Full Cure (hours) 120

QUALITY CONTROL

QC techniques are limited on concrete substrates so the surface should be visually inspected very carefully both before and after installation of the **Chemcrete Super**.

FORCE CURING

If possible, force cures are recommended for extreme service conditions. Contact Duromar for specific force cure recommendations.

STORAGE/SHELF LIFE

Store in dry area in closed containers between 50 °F and 100 °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 SUPER 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.

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