

Zycosil Multi Surface Sealer

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1. Product

Zycosil Multi Surface Sealer

2. Product Description

Zycosil Multi Surface Sealer is a clear, water soluble, concentrated, penetrating sealer based on organosilane technology. Deep penetration and reaction with the substrate provides long term water proofing for up to 20 years. Zycosil Multi Surface Sealer protects surfaces from structural and aesthetic damage such as efflorescence, and structural freeze thaw. It also reduces the damaging effects of water penetration to steel.

3. BASIC USE:

Recommended for use on:

- Masonry Block (CMU)
- Brick
- Concrete
- Unsealed Stucco
- Sand and dirt
- Plaster
- Grout
- Aggregates
- Pavers
- Cement tile

4. Features/Benefits:

- Water based, no harmful solvents, meets the stringent VOC Standards of California.
- Easy application by spray, brush or roll
- No masking required if windows and metal trim are clean
- Greater coverage per gallon than competitive sealers
- Dries clear, does not alter substrate appearance
- Faster reaction time than typical sealers
- Breathable
- Reduces mold and mildew growth
- Reduces material and labor costs

5. COMPOSITION & MATERIALS:

Zycosil Multi Surface Sealer is an Organosilane based sealer in a concentrated form and must be diluted with water prior to application.

6. Advantages

Zycosil Multi Surface Sealer has several advantages including:

- Concentrated- just add water-very low VOC
- Can be used on several surfaces including stone, brick and cement
- Reacts quickly with substrate and is water repellent after drying

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- Interior or exterior
- Vertical or horizontal application
- Exceeds ASTM Standards

7. Preparation

The substrate must be dry, clean, sound and dimensionally stable. It must be free from loose particles, wax, sealers, curing compounds, grease, and efflorescence. Concrete must be fully cured (28 days), tuck point must be cured for 3 days.

Application Requirements

Zycosil Multi Surface Sealer should be applied to surfaces that are above 50°F. Surface should be dry with no rain expected within 2 hours following application.

Vertical Surfaces:

- Pressure washing required (minimum 1400 psi) followed by drying.
- Chemical cleaners should be used to remove and/or neutralize surface contamination
- Remove all traces of dirt, efflorescence, mold, mildew, grease, oil, asphalt, laitance, curing compounds, paint, coatings or any other surface contaminant.
- Repair all cracks greater than 1/32 of an inch.
- Apply a pre-test area to a representative area to determine proper rate of application, and to insure adequate water repellency.
- Insure all caulking or sealants have formed a heavy skin prior to application.
- Do not reduce concentrate with water prior to 24 hours before application.

Horizontal Surfaces:

- Pressure washing (minimum 1400 psi) followed by drying or shot blasting prior to application is required. Preparation should include all surfaces to be sealed, plus 3 inches of the vertical surface adjacent to the horizontal surface if possible.
- Chemical cleaners should be used to remove and/or neutralize surface contamination
- Remove all traces of dirt, efflorescence, mold, mildew, grease, oil, asphalt, laitance, curing compounds, paint, coatings or any other surface contaminant.
- Repair all cracks greater than 1/32 of an inch.
- Apply a pre-test area to a representative area to determine proper rate of application, and to insure adequate water repellency.
- Insure all caulking or sealants have formed a heavy skin prior to application.
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8. Mixing Instructions

- a. Use cool, clean water, clean tools and clean containers
- b. Add water first, slowly pour in Zycosil concentrate. Stir slowly for 3-5 minutes, or with a very slow speed paddle mixer for two minutes. Avoid creating foam.
- c. The sealer is concentrated and needs to be diluted with clean water at the rate of *10 parts water to 1 part Zycosil* for horizontal applications and 20 parts water to 1 part Zycosil for vertical applications.
- d. Mix only what can be used within 24 hours. Discard material that is not used within 48 hours.

9. Application

Applications requiring a warranty require approval and sign off of a product Representative prior to application

Read the safety instructions on the container and the MSDS sheet prior to the application.

- a) Diluted sealer is applied by low pressure pump up airless spray (15-20 p.s.i.)
- b) Airless sprayers may be used at low pressures (under 15-20 p.s.i.) using wide fan tips.
- c) Insure that all windows and metal trim have been cleaned during the cleaning process. The sealer will not react with metal or glass, but will react with dirt making removal more difficult.
- d) Cover or pre-wet with clean water any vegetation to reduce the chances of temporary browning. The active ingredient is not toxic to terrestrial or aquatic life.
- e) Cover or pre-wet asphalt to avoid any asphalt residue from leaching out and staining adjacent surfaces.
- f) On horizontal surfaces, apply enough material to flood the surface. Move around any material which has not penetrated the surface after 5-10 seconds. Keep traffic off of the surface until the sealer has dried.
- g) On vertical surfaces, work from the bottom up. Saturate the surface with the sealer; run downs are not required as with other sealers.
- h) After the surfaces have dried, rinse off any over spray on windows or metal trim with water. If the windows or metal trim were not cleaned prior to the application of the sealer, warm soapy water will be required.

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10. Technical Information

SPECIFICATIONS:

- ASTM D 6489 Concrete water penetration-Less than 15% after 24 & 48 Hours
- ASTM G 154 Accelerated Weathering-Less than 5% Loss after 2000 hours
- ASTM E514 Brick/Masonry Standard Test for Water Penetration-Passes 85% Reduction
- ASTM 1653:03 Masonry Vapor Transmission-Passes (breathable)
- ASTM E 303:93 Wet Concrete Slip Resistance-Complies
- IS 3067-1988 Masonry Dampproofing of Building-Complies
- IS 13182-1991 Masonry Dampproofing & Waterproofing of Buildings-Complies

* Non-air entrained concrete or brick

11. Limitations

- Do not apply to frozen or frosted surface, the sealer should not be applied below 50°F, nor should the sealer be exposed to freezing conditions during the first 24 hours of drying.
- Do not use materials after 24 hours of mixing
- Do not apply over previously sealed or painted surfaces
- Do not apply during very windy conditions
- Do not apply over concrete that has not reached 80% design strength or concrete is minimum 28 days old
- Do not apply when rain is expected within 2 hours
- Do not allow traffic on sealed surface until completely dry

12. Packaging

Multi-surface Sealer is available in Quarts and Gallons.

13. Coverage

Square feet per reduced gallon (a test patch is recommended to determine actual coverage rates).

Porous Block	60-100	sq feet
Block	100-200	sq feet
Brick	150-225	sq feet
Pre cast Vertical	150-250	sq feet
Precast Horizontal	100-200	sq feet
Stucco	120-210	sq feet

14. Warning

Zycosil Multi Surface Sealer requires normal safety wear such as protective clothing, boots, rubber gloves and dust masks. Eye safety glasses should be worn while handling. Material Safety Data Sheets are available upon request.

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15. Limited Warranty

Packager, having no control over the use of the material, does not guarantee finished work. Replacement of any defective product or refund of the purchase price of defective product shall be the buyer's sole remedy under this warranty.

THIS LIMITED WARRANTY EXCLUDES ANY LIABILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT OR SPECIAL DAMAGES.

EXCEPT FOR THE LIMITED WARRANTY MADE ABOVE, PACKAGER SPECIFICALLY DISCLAIMS AND EXCLUDES ANY OTHER EXPRESS WARRANTY, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF GOODS AND ANY IMPLIED WARRANTY OF FITNESS OF GOODS FOR ANY PARTICULAR PURPOSE.

*We reserve the right to change specifications without notice.
Zycosil Concentrate is manufactured by Zydex Industries.*