1. **Product Name**
ASH GROVE PRO® Zycosil Multi Surface Sealer

2. **Manufacturer**
ASH GROVE PACKAGING GROUP
10809 Executive Center Drive, Ste. 321
Little Rock, AR 72211
Phone: (888) 289.1117
Fax: (501) 224.3882
www.ashgrovepkg.com

3. **Product Description**
ASH GROVE PRO® Zycosil Multi Surface Sealer is a clear, water soluble, concentrated, penetrating sealer that provides superior water repellency on all types of new and existing cement based surfaces. Nano sized particles penetrate deeply and react with the substrate to provide superior water repellency and protection from structural and aesthetic damage such as efflorescence and freeze thaw.

**BASIC USES:**
- New and existing cement based surfaces
- Interior or exterior applications
- Vertical or horizontal
- Brick, block, stone, or tile
- Concrete
- Stucco, plaster
- Grout
- Aggregates
- Pavers and jointing sand

**COMPOSITION & MATERIALS:**
ASH GROVE PRO® Zycosil Multi Surface Sealer is an organo-silane based penetrating sealer in a concentrated form.

4. **Advantages/Benefits**
- Eco-friendly with no harmful solvents
- Penetrates deeply (up to 5 mm) and quickly
- Reacts chemically with substrate to provide molecular level water repellency
- UV and thermal stability (20+ years)
- Easy application by spray, brush, or roller
- Dries clear, does not alter substrate appearance
- Reduces mold and mildew growth
- Protects against surface contamination, staining, and efflorescence
- Excellent chemical resistance
- Protection from oils, acids, chemicals, greases, solvents, and salts
- Labor saving, no masking required if windows and metal trim are clean
- Exceeds ASTM standards

5. **Preparation**
The substrate must be dry, clean, sound and dimensionally stable. Pressure wash (1400 psi) all surfaces to be sealed. Shot blasting may be required on horizontal surfaces. All traces of dirt, efflorescence, mold, mildew, grease, paint, coatings or other surface contaminants must be removed. Repair all cracks greater than 1/32” (all caulking or sealants must form heavy skin prior to application). Concrete must be fully cured (28 days), tuck point must be cured for 3 days.

Ensure that all windows and metal trim have been cleaned. The sealer will not react with metal or glass, but will react with dirt making removal more difficult. Cover or pre-wet any vegetation to reduce chances of temporary browning (Zycosil is non-toxic). Cover or pre-wet asphalt surfaces to avoid asphalt residue from leeching out and staining adjacent surfaces.

6. **Mixing Instructions**
Use protective gloves and safety glasses. Always use cool, clean water and clean mixing tools. ASH GROVE PRO® Zycosil Multi Surface Sealer is concentrated and must be diluted prior to use. Add water first, then slowly pour in Zycosil concentrate at the following dilution rates:

- Horizontal application 10:1
- Vertical application 20:1

Gently stir for 3 – 5 minutes. DO NOT MIX VIGOROUSLY, which can introduce air bubbles.

Mix only what can be used within 24 hours. Discard any material not used within 48 hours.

7. **Placement**
ASH GROVE PRO® 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. Apply using a low pressure airless sprayer, brush, roller, or broom.

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.

On vertical surfaces, work from the bottom up. Saturate the surface with the sealer; run downs are not required as with other sealers.

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.
8. Curing
Dries to touch in 2 hours, allow light traffic in 24 hours.

9. Technical Information

<table>
<thead>
<tr>
<th>ASTM D 6489</th>
<th>Concrete water penetration</th>
<th>Less than 15% after 24 &amp; 48 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM G 154</td>
<td>Accelerated Weathering</td>
<td>Less than 5% Loss after 2000 hrs</td>
</tr>
<tr>
<td>ASTM E514</td>
<td>Brick/Masonry Std Test for Water Penetration</td>
<td>Passes 85% reduction</td>
</tr>
<tr>
<td>ASTM 1653:03</td>
<td>Masonry Vapor Transmission</td>
<td></td>
</tr>
<tr>
<td>ASTM E 303:93</td>
<td>Wet Concrete Slip Resistance</td>
<td></td>
</tr>
<tr>
<td>IS 3067-1988</td>
<td>Masonry Damproofing of Buildings</td>
<td></td>
</tr>
<tr>
<td>IS 13182-1991</td>
<td>Masonry Damproofing &amp; Waterproofing of Buildings</td>
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</tbody>
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10. Limitations
- Do not apply to frozen or frosted surface, do not apply below 50°F, do not expose to freezing conditions within first 24 hrs.
- 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 that is less than 28 days old
- Do not apply when rain is expected within 24 hrs
- Do not allow traffic on sealed surfaced until completely dry

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Coverage</th>
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<tbody>
<tr>
<td>Porous Block</td>
<td>60-100 sq feet</td>
</tr>
<tr>
<td>Block</td>
<td>100-200 sq feet</td>
</tr>
<tr>
<td>Brick</td>
<td>150-225 sq feet</td>
</tr>
<tr>
<td>Pre cast Vertical</td>
<td>150-250 sq feet</td>
</tr>
<tr>
<td>Precast Horizontal</td>
<td>100-200 sq feet</td>
</tr>
<tr>
<td>Stucco</td>
<td>120-210 sq feet</td>
</tr>
</tbody>
</table>

12. Packaging
Available in Quarts and Gallons

13. Warning
Do not take internally. If accidentally ingested, seek immediate medical attention; do not induce vomiting and do not use syrup of ipecac. Contact may cause skin irritation or eye injury. Avoid skin and eye contact. In case of contact with eyes, flush with water and call physician. Use only in well ventilated area.

READ AND FOLLOW ALL PRECAUTIONS LISTED IN THE MATERIAL SAFETY DATA SHEETS (S) AVAILABLE UPON REQUEST OR AT WWW.ASHGROVEPKG.COM

KEEP OUT OF REACH OF CHILDREN

14. 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.

Ash Grove Packaging reserves the right to change specifications without notice.

Zycosil Concentrate is manufactured by Zydex Industries.