

# MICROGLASS®

**PREMIUM CURING AGENT FOR ALL TYPES OF POOL & SPA FINISHES**

**SAFE  
NO VOC'S  
EASY TO USE  
REDUCES AND STOPS DUSTING  
REDUCES MICRO/SHRINK CRACKING  
IMPROVES START UP CHEMISTRY  
REDUCES OVERALL CHEMICAL USAGE**

**FOR:  
POOL PLASTER FINISHES  
SPA PLASTER FINISHES  
GUNITÉ  
SHOTCRETE  
CONCRETE & PLASTER ALL TYPES  
QUARTZ AND PEBBLE FINISHES**

## SPRAY - DRY ROLL - CURE

**THE MOST EFFECTIVE PRODUCT FOR THE  
ELIMINATION OF MICROAND SHRINK CRACKING,  
WHILE IMPROVING START UP CHEMISTRY.**

### Microglass **APPLICATION GUIDELINES**

1. Assure that the plaster is complete with no further finishing.
2. Apply Microglass as it comes from the container with a low pressure garden type spray adjusted to a fine mist.
3. Spray the entire surface allowing the Microglass to penetrate and permeate the cement paste. Follow with a dry 1&1/2" dry roller cover unifying the application.
4. Wipe excess material from surface of plaster/aggregates with no ponding, runs, or puddling of the product. Wipe first with a cloth dampened with potable water and then by a dry cloth.
5. **PROTECT ALL TILE, ALUMINUM, STAINLESS STEEL and GLASS FROM OVERSPRAY. Microglass WILL BE VIRTUALLY IMPOSSIBLE TO REMOVE IF ALLOWED TO DRY.**
6. For pools allow minimum 4 hour cure time, or overnight before filling.



**OXIUM, LLC**  
6301 Porter Road  
Suite 11  
Sarasota, Florida 34240



Apply directly on to the concrete or plaster w/no ponding or runs when surface is dry to the touch.



Apply by garden sprayer and dry roll to even out application . Apply one coat and follow with a second.

**AVAILABLE IN  
2.5 gallon - 5 gallon - 55 gallon  
275 gallon Containers**

# MICROGLASS

## TECHNICAL DATA AND APPLICATION GUIDELINES

### ENVIRONMENTALLY SAFE & EFFECTIVE CURING AND STABILIZATION FOR CONCRETE & PLASTER

#### Microglass TECHNICAL DATA SHEET

#### 1.0 PRODUCT

Microglass

#### 2.0 MANUFACTURER

OXIUM, LLC  
Suite 11, 6301 Porter Road,  
Sarasota, Florida 34240

#### 3.0 PRODUCT DESCRIPTION

##### 3.1 Microglass

Microglass is a specifically formulated and precisely manufactured product for the curing and hydration of new concrete, plaster and other cement based finishes or materials.

#### 4.0 MODE OF OPERATION

##### 4.1 SURFACE PREPARATION

**A. Surface Preparation Of New Cement Based Materials** The surface shall be clean and free from dirt etc. Can be applied to fresh concrete and or plaster once final set has taken place and finishing operations are complete. The surface appearance must be correct.

##### 4.2 Microglass FUNCTIONS

The formed reaction product is a result of alkali and silicate combination ( $\text{CH} + \text{SiO}_2 = \text{CSH}$ ) within the matrix of the cement based substrate, increases density by filling the micro-pores and capillaries with water impermeable calcium silicate. Microglass will allow the substrate to pass moisture vapor from within, thereby improving the hydration of plaster and cement based materials.

##### A. EXISTING SUBSTRATES

On existing substrates Microglass will strengthen and densify cement based materials, stopping efflorescence, increasing compressive and flexural strengths as well increasing the pH to better than new. Microglass prepares such surfaces for re-coating or overlays by providing a bondable surface that is stable. Microglass has shown to reduce and or eliminate calcium nodule growth.

**75-200 square feet per gallon coverage rate**

##### A. NEW CONCRETE PLACEMENTS

On new placements Microglass will penetrate quickly and deeply into the surface of the new concrete materials. Once the material is placed and reached its final set and finishing operations are complete, Microglass will keep the moisture within the matrix and improve the curing capability of the cement based material itself.

**200-400 square feet per gallon coverage rate.**

##### 4.3 Precautions

*Care should be taken not to allow over spray on adjacent materials. Protect all surfaces such as glass, glazed tile, stainless steel and aluminum from application of Microglass.*

*Remove immediately before it dries with soap and water as removal may be impossible if dried.*

#### 4.4 Clean Up

Clean up with soap and water. Rinse tools and equipment with clean water.

#### 4.5 Safety

Microglass is non hazardous, environmentally and user safe. A standard dust mask is adequate protection to keep from inhaling any atomized vapors that may be airborne during application.

#### 5.0 APPLICATION OF Microglass

1. Open container and use directly as provided.
  2. Apply by spray application (low pressure) garden type sprayer. Set nozzle at fine mist.
  3. Apply to a clean and properly prepared surface.
  4. Spray Microglass on the substrate wetting out the surface without ponding and follow with dry roller.
  5. All excess material must be removed and cleaned from the surface. If allowed to dry this material can be a bond breaking condition and or white out.
  6. Once material has been sprayed on and allowed to soak in, backroll with dry roller, wipe adjacent surfaces with a damp rag and follow with a dry cloth.
  7. Assure that the cement plaster has absorbed the product and no excess Microglass is on the surface.
  8. Allow to cure 4 hours prior to filling pool, spa or vessel.
5. Repeat this process as needed to attain the desired effect.  
*Note: If surface is excessively dry, hot or windy, the surface may have to be dampened with water to avoid flash setting of the material on the surface. Microglass is a penetrant not a surface coating. It reacts and works internally on the substrate as well as the surface.*

#### 5.0 FAVORABLE CHARACTERISTICS

**Microglass will significantly reduce the possibility of shrink cracking do to moisture evaporation from the cement based material by sealing the moisture into the matrix itself. Microglass will also reduce chemical start up issues by sealing the cement paste which is the reactive component in swimming pools and spas. Microglass will add years of life to the pool finish itself by creating a non reactive cement based binder. No VOC's, Water Based, Simple and Easy to use, no odor, non flammable, clear and non yellowing, not affected by UV exposure, GRAS Certified (Generally Accepted As Safe) by the USDA, easy clean up, non toxic and economical.**

#### 6.0 PACKAGING

Available in 1 gallon jugs, 5 gallon pails, 55 gallon drums or 275 gallon totes

#### 7.0 STORAGE & HANDLING

Do not freeze. Shelf life 3 years.

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# Microglass<sup>®</sup>

## APPLICATION SUMMARY

### ENVIRONMENTALLY SAFE & EFFECTIVE CURING AND STABILIZATION FOR CONCRETE & PLASTER

#### Microglass TECHNICAL APPLICATION ANALYSIS

##### 1.0 PRODUCT

Microglass

##### 2.0 MANUFACTURER

OXIUMs, LLC  
Suite 11, 6301 Porter Road,  
Sarasota, Florida 34240  
Contact person: William Reed, Director of Operations, CELL NUMBER: (941) 323-9720

##### 3.0 PRODUCT DESCRIPTION

###### 3.1 Microglass

Microglass is a specifically formulated and precisely manufactured product for the curing and hydration of new concrete and plaster materials.

##### 4.0 Microglass PROJECT SUMMARY

PROJECT TYPE:  NEW PLASTER  NEW CONCRETE  NEW GUNITE  NEW SHOTCRETE

4.1 PLASTER TYPE: \_\_\_\_\_ Microglass APPLIED  SAME DAY  NEXT DAY AFTER \_\_\_\_\_

4.2 PROJECT LOCATION \_\_\_\_\_  
\_\_\_\_\_

4.3 PLASTER CONTRACTOR: \_\_\_\_\_

CONTACT PERSON \_\_\_\_\_ PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

4.4 DATE Microglass WAS APPLIED: \_\_\_\_\_ TOTAL SQUARE FOOTAGE OF APPLICATION \_\_\_\_\_

TOTAL AMOUNT OF Microglass USED ON THIS APPLICATION \_\_\_\_\_

##### 5.0 APPLICATION CHECKLIST

ALL SURFACES WERE PROTECTED FROM OVER SPRAY  YES  NO

PLASTER WAS COMPLETELY FINISHED PRIOR TO APPLICATION  YES  NO

Microglass WAS APPLIED BY LOW PRESSURE GARDEN TYPE SPRAYER  YES  NO

ONCE APPLIED MATERIAL WAS ALLOWED TO ABSORB INTO SURFACE  YES  NO

SPRAYED SURFACE WAS BACK ROLLED WITH DRY 1 1/2" ROLLER  YES  NO

ONCE MATERIAL HAD BEEN ABSORBED THE SURFACE WAS WIPED DOWN TO REMOVE ALL EXCESS  YES  NO

PLASTER WAS ALLOWED TO CURE A MINIMUM OF 4 HOURS PRIOR TO FILLING  YES  NO

PLASTER ALLOWED TO CURE OVERNIGHT BEFORE FILLING  YES  NO

##### 6.0 APPLICATION COMMENTARY:

*Please list all comment as to function and application of the Microglass PRODUCT. Your input is greatly appreciated.*

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PLEASE SCAN AND EMAIL TO: [william@oxiumllc.com](mailto:william@oxiumllc.com)

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**Www.oxiumllc.com**

# Microglass®

## APPLICATION SUMMARY



Day 2 after acid washing



Spraying Microglass & back rolling with a dry 1 1/2" roller cover.



Spraying and rolling.



Here the Microglass has been sprayed on the wall.



Now the sprayed section is being back rolled with a dry roller.



Here you can see the results of spraying and back rolling.



Curing overnight after spraying



After filling with iron contaminated well water.



Iron deposits in pool which did not stain or adhere to pool surface.

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# Microglass

PROBLEM RESOLUTION SUMMARY

WHEN ITS **Microglass** ITS PROBLEM SOLVED  
BEFORE THERE IS ONE



Rust from deposits from the well water that literally were brushed away.



The pH of the well water remained at 8.2 after filling with well water



No graying or mottling occurred after spraying.



After application of Microglass the powdery residue left from acid washing disappeared.

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