

PRODUCT DATA SHEET

MEDUSA CLEAR SOLVENT SEALER (30%)



Medusa Clear Solvent Sealer is a single component solvent-based acrylic sealer with 20% Solids. It is a color enhancing high gloss sealer that has been developed for concrete and other cementitious surfaces.

This product is a vapor permeable product but also reduces the penetration of fluids into the surface. Ideal for driveways, garage floor, patios, brick pavers, pool decks, stucco and concrete block.

APPLICATIONS

Medusa Clear Solvent Sealer has an infinite number of applications, but is most commonly used for:

- Driveways
- Garage Floors
- Patios
- Brick Pavers
- Pool Decks
- Concrete Block
- Theme Parks
- Themed Attractions

BENEFITS

Medusa Clear Solvent Sealer has a large list of benefits, including but not limited to:

- Hard wearing
- Vapor Permeable
- Improves Stain
- Abrasion Resistant
- UV Protection

PACKAGING

5 Gal (pail)
55 Gal (drum)

COVERAGE

Varies upon substrate, approximately 180-200 ft² per gal., per coat (16.7m² pr 3.8L, per coat) 8-8.9 mils wet; 1.6 - 1.8 mils cured.

VOC CONTENT

600g/L

APPLICATION TEMPERATURE

50°F - 90°F

ODOR

Solvent

CURE TIME

Foot Traffic - 24 hours
Vehicular Traffic - 72 hours

APPEARANCE

Cured - Clear high gloss
Wet - Clear

SHELF LIFE

Under normal, moisture free conditions, 2 years for an un-opened container.

WATER RESISTANCE

Excellent, beads water

MECHANICAL STABILITY

Excellent

LIGHT STABILITY

Excellent

SOLIDS

30%

DILUENT

Hydrocarbons

SURFACE PREPARATION

- 1. Clean** - The surface must be free of dust, dirt, oil, grease, paints, glues, non- acrylic sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker.
- 2. Cured** - Any concrete must be sufficiently cured to have complete hydration, approximately 28 days depending on temperatures & humidity. Some cement-based products may cure sufficiently within 2 – 3 days.
- 3. Sound** - No system should be placed on concrete or cement-based products that are flaking or spalling. If the surface is delaminating, then diamond grinding, shot blasting, or other mechanical means should be used to remove the delaminating areas.
- 4. Profiled**- Proper profile should follow the standard established by the International Concrete Repair Institute (ICRI) Technical Guideline no. 03732 for Concrete Surface Profile (CSP). The established profile is categorized as CSP-1.

Recoating

Concrete Clear Sealer may be a good choice to reseal or refresh an existing decorative concrete project. The surface must first be cleaned prior to application.

- A. Mechanically:** Diamond grinding or shot blasting
- B.** You should only use this product to re-coat an existing solvent based acrylic. You can determine an unknown existing sealer by placing a paper towel saturated with xylene over a small area. Cover the towel with plastic and allow it to remain in place for about 15 minutes. Solvent based acrylic may feel slippery to the touch, but water based acrylic turns into a slimy mess that can be scraped off with ease.
- C.** Before re-coating, prepare on-site onto a small test area on the intended substrate to establish

compatibility of solvents and avoid blistering and delamination.

- D.** Re-coat applications may be complete with a single coat, always evaluate to see if a second coat is needed. Best performance is achieved through thin coat(s).

APPLICATION

Planning

1. This a flammable product therefore for all interior applications, turn off all fuel burning applications and pilot lights.
2. Ensure the area of application is well ventilated.
3. Make sure you have the correct PPE on site ready to use. Respirators should be NIOSH approved.

Temperature / Weather

1. On very hot or cold days or during wet / foggy weather we would recommend avoiding installation.
2. Apply within temperatures that are at and will remain within 50°F and 90°F for at least 24 hours.
3. Do not use on an outdoor application if precipitation is forecasted within 24 hours

First Coat

1. Rolling

- Utilize a bucket grid to apply in a thin film.
- Make sure you have a roller with solvent resistant core and the NAP size will vary depending on the texture.
- Make sure there is no puddling.
- When rolling back take care to avoid roller tracks.

2. Airless Spraying

- Airless Sprayer should be capable of a minimum .5 gpm discharge.
- Tip Size approximately .015" - .019" with a 65° fan.
- Horizontal surface utilize an 8" - 10" extension.

- Maintain a wet edge between passes.

3. Pump-up Sprayer

- Purchase a solvent resistant sprayer.
 - Purchase fan or cone tip as preferred that can pass 30% solids products.
 - Have sufficient tips on hand to allow clean-up that will not interrupt the installation.
 - If required, back roll sprayed area to lay product flat.
4. Once the first coat has cured enough for walking traffic, you can apply a second coat if required. Best protection is usually achieved by two thin coats.

Second Coat

Apply in the same way as first coat after the first coat has cured.

- Foot Traffic - 24 hours curing time
- Vehicular Traffic - 72 hours curing time

SLIP RESISTANCE

Both OSHA (Occupational Safety and Health Administration) and the Department of Justice through ADA (Americans with Disabilities Act) have issued directives on minimum coefficient of friction. ADA states that accessible walkways have a minimum coefficient of friction of 0.6. Ramps have been directed to 0.8. The applicator assumes the responsibility to meet these standards.

CLEAN UP

If spills or on tools, make sure to clean up concrete sealer with xylene or acetone before the product dries.

DISPOSAL

Follow local guidelines for disposing hazardous products.

LIMITATIONS

- For use by trained professionals.
- Best performance on concrete slabs that have no

ponding of standing water.

- When masking use caution while taping to a floor that is not cured fully, especially at edges, as delamination may occur.
- Protect floor from metal wheel traffic and any items that could be damaging.
- Chemical used in tire manufacturing may be detrimental to all sealer from vehicular parking.

CAUTIONS

KEEP OUT OF REACH OF CHILDREN. Product is flammable. Avoid sources of ignition. Keep areas of installation well ventilated.

Inhalation: Use NIOSH approved respirator for organic vapors.

Skin Contact: Skin contact may cause irritation. Remove contaminated clothing immediately and wash effected area with soap and water. Wash clothing before using again. If symptoms persist seek medical attention immediately.

Eyes: Wear safety eye protection when installing this product. If contact occurs, flush eye with water for 15 minutes, seek medical attention.

FURTHER INFORMATION

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local Regulations concerning the safe handling of solvent based materials must be observed. Suitable protective clothing including eye protection must be worn at all times.

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TEST DATA

TEST	ASTM (IF APPLICABLE)	RESULTS
Blush	4 hr. dry / 18 hr. immersion	No Blush
Adhesion	D-3359	
Dry Concrete		Excellent
Wet Concrete		Excellent
QUV accelerated weather testing	G-53	250 hr. - no blistering, no yellowing
Abrasion resistance		12.5 grams loss
Block resistance	D-4946	Excellent
Heat Stability @ 120°F	D-1849	Excellent
Film formation @ 40°F		Passed
Water Absorption		2.4 g / m ³
Pencil Hardness	D-3363	HB-H
Hot tire pick-up		Passed*

*Under extreme circumstances delaminating could occur. All tire manufacturers were not tested. Chemicals used in tire manufacturing may be detrimental to all sealers from vehicular parking.

CHEMICAL RESISTANCE

TESTING ASTM D-1308	
Transmission Fluid	Resistant
Gasoline	Remove immediately
Formula 409	Resistant
Motor oil	Resistant
Brake Fluid	Remove immediately