SURFACE™ by tecnodry

SOLVENT

EP-900

Sol-gel solvent base primer

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Technical Data Sheet

DESCRIPTION

EP-900 is a single component, spray on sol-gel based primer that functions as an intercoat adhesion primer or direct to substrate primer. **EP-900** creates a molecular bridge between a coating and the substrate, chemically fusing substrate and top coat. **EP-900** is very compatible with many surfaces, and many coatings, though water-based coatings are not compatible as top coats. When used on concrete substrates, as long as concrete is clean and free of bond breakers such as oils, greases, etc., no grinding or surface profile is needed to achieve strong chemical bond to surface

USES

- Serves as adhesion layer between coating and substrate, or between two coatings
- Can be applied on coated or uncoated concrete, rubber, plastic, fiberglass and glass, porcelain, painted or unpainted iron; aluminum, copper and other metals; hot rolled steel, cold rolled steel, stainless steel; powder coated and galvanized surfaces

KEY FEATURES

- Removes the need to grind, sand or profile substrates or coatings before top coating
- Provides strong bonding to the hard to bond or low/no profile surfaces
- 90 minutes overcoat window. If window is missed, run a screen or light abrasion and reapply
- Provides chemical bonding to substrate and becomes one with the surface they are applied to
- Can be used on porous and non-porous substrates – concrete, stones, tile, porcelain, glass
- Single component, spray down primer
- UV stable and virtually invisible

COLORS

Clear to slight straw yellow liquid

COVERAGE

Calculation for theoretical coverage: 300 – 400 ft² /gal @ Recommended spread rate 4 – 5 mils WFT, 0.4 – 0.9 mils DFT

**WFT = Wet Film Thickness, DFT = Dry Film Thickness*

MIXING

Ready to use. There is no need for mixing or diluting

PACKAGING

1 quart, 1 gallon buckets, 5 gallon pails, 55 gallon drums, 275 gallon totes

STORAGE

12 to 18 months in factory delivered, unopened drums. Store on pallets and keep away from extreme heat, freezing, and moisture. Store at temperatures between 50°F and 80°F (10°C and 27°C)
Store in a cool, dry place <80ºF. Always seal container after dispensing. Published shelf life assumes upright storage of factory-sealed containers in a dry place <80ºF

SURFACE PREPARATION

PREPARATION - Protect all surfaces not designated for coating application. Do not apply to surfaces that are frozen, dirty, or have standing water, grease, oil or other contaminants. Intended surfaces must be clean, dry and absorbent. Confirm surface absorbency with a light water spray - intended surface should wet uniformly. If surface does not wet uniformly, use a recommended cleaner, auto scrubber, power washer or other process to remove surface contaminants. Surface must be clean and dry prior to application

NEW CONCRETE - Remove all dust, debris and other contaminants from the surface. If concrete is less than 28 days old, **SURFACE VB** must be used prior to **EP-900**. With **SURFACE VB**, new concrete can be coated with SURFACE products 96 hours after pour. Refer to **SURFACE VB** application instructions and TDS for how to install properly

EXISTING CONCRETE - Intended surface must be clean, dry and structurally sound. Remove any and all contaminants including bond breakers, surface grease and oil, dust and construction debris. For larger surface areas, use an autoscrubber with an appropriate cleaner. Surface must be dry prior to application of SURFACE products

SURFACE & AIR TEMPERATURE

45 - 104ºF (7 - 40ºC)

EQUIPMENT

For horizontal substrates, use an acetone-proof pump sprayer with a cone tip. For vertical/upright substrates, use an HVLP spray gun.

BEFORE APPLICATION

Before use, read Preparation, Hazard and Precautionary Statements. ALWAYS TEST using the equipment and procedures prior to starting the job

TYPICAL COVERAGE RATES

Smooth Concrete	500-600	Concrete Block	200-250
Broom Finish	250-300	Concrete Pavers	250-300
Diamond Grind	150-250	Concrete Slab	250-300

*Coverage rates will vary based on substrate porosity and application method.

HORIZONTAL SURFACES - Ensure surface is free of any dust, debris and other contaminants. Solvent wipe prior to application of **EP-900**. If solvent wipe pad appears black/very dirty after wipe, surface is not clean and must be cleaned with an auto-scrubber and an appropriate cleaner/degreaser. Once surface is clean and dry, **EP-900** application may begin. Use an acetone proof pump sprayer, ex. Swissmex, with a cone tip. Keep spray tip 18 inches off the ground and apply product slowly in a circular motion, similar to how a stain is sprayed on concrete. On broom finished, troweled, ground or non-polished concrete, spray at least two coats wet on wet, 3-4 mils WFT each. Apply with a 50% overlap, keeping a wet edge while applying. Observe how the concrete absorbs the first coat for at least 5 minutes. If the surface still looks the same as before the **EP-900** application and not wet/saturated, additional coats are required in the dry, non-enhanced areas. Concrete must be saturated for **EP-900** to work properly.

APPLICATION

Once concrete is saturated, wait at least 15 minutes for **EP-900** to become tacky. Once tacky, **EP-900** may be over coated with non-water based coatings. Do not apply over coat until **EP-900** is tacky. Failure to wait until tacky will result in fish eyes, over coat shrinking away from coating perimeter, and poor finish of top coat. Once **EP-900** is tacky, you have 90 minutes to apply over coat. If overcoat window is missed, screen floor and reapply **EP-900**

VERTICAL SURFACES - Ensure surface is free of any dust, debris and other contaminants. Once surface is clean and dry, **EP-900** application may begin. Use an HVLP spray gun set to 25 PSI, with a 1 inch by 8 inch elongated, vertical spray pattern. On broom finished, troweled, or non-polished concrete, spray at least two coats wet on wet, 3-4 mils WFT each at least 3 minutes apart to observe how concrete absorbs **EP-900**. Apply with a 50% overlap and, keeping a wet edge while applying. Observe how the concrete absorbs the first coat. If the surface still looks the same as before the **EP-900** application and not wet/saturated, additional coats are required in the dry, non-enhanced areas. Concrete must be saturated and feel tacky after **EP-900** application for **EP-900** to work properly.

RETURN TO SERVICE TIME

Refer to over coat manufacturer's return to service/dry times. Wait at least 3 days before exposing to vehicular traffic

HAZARD STATEMENTS

IN CASE OF FIRE: Use dry chemical, alcohol foam or carbon dioxide extinguisher. Water spray may be used to cool, dilute or disperse vapors. Do not release runoff to drains or waterways. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Closed containers may explode when exposed to extreme heat. This material may produce a floating fire hazards sensitive to static discharge

ACCIDENTAL RELEASE MEASURES: Dike area to prevent spreading. Ventilate area of leak or spill. Remove all sources of ignition. Collect liquid in an appropriate container or inert absorbent material. Do not flush to sewer. Dispose of chemical waste in accordance with current local, state and federal regulations

OTHER PRECAUTIONS: Store in cool (below 100ºF) ventilated area, away from children, food stuffs, strong oxidizers, heat sparks, flames and all sources of ignition. Keep container tightly sealed when not in use. Do not apply heat, cut, drill, and grind or weld on or near this container. Use respiratory protection when misting or spraying. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Provide ventilation with positive fresh air exhaust in work area. OSHA 1910.134 and ANSI Z88.2. Avoid skin contact. Wear butyl rubber gloves and impervious protective clothing. Do not wear contact lenses. Chemical safety goggles or splash shields recommended. Do not eat or drink when using this product. Wash hands thoroughly after handling. Dispose of in accordance with local, state, federal and international regulations.

EQUIPMENT CLEAN UP

CLEAN UP - Clean tools and flush out spray equipment with acetone within 15 minutes after application. Once product cures, it can not be removed from spray equipment. After one flush out, repeat for 2 total flushes

LIMITATIONS

As treated and untreated surfaces look similar, finish work on an obvious point such as a corner or mark where you have stopped. When you start work again you can apply over the dry edge without sanding

LIMITED WARRANTY

TECNODRY warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. **TECNODRY** warrants that its products, when properly installed by a state licensed contractor according to **TECNODRY** guide specifications and product data sheets over a sound, properly prepared substrate, will not fail for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by **TECNODRY** of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. **TECNODRY** shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. **TECNODRY** shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. **TECNODRY** reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and **TECNODRY** makes no claim that these tests or any other tests, accurately represent all environments. For further information please contact us at the following email address: info@self-leveling.us or visiting www.self-leveling.us

CAUTION

ALWAYS KEEP OUT OF THE REACH OF CHILDREN.
KEEP FROM FREEZING CONDITIONS INTENDED FOR INDUSTRIAL USE ONLY

TECHNICAL DATA (All values @ 77 °F / 25 °C)	US	METRIC
Volatile organic compounds (ASTM D2369)	< 1.25 lb./gal	< 150 gm/ liter
Theoretical coverage	300 – 400 ft² /gal @ 0.4-0.9 mils DFT	22-37 m²/liter @ 10-23 microns
Specific Gravity of materials (ASTM D792)	7.3 lbs./gal	0.87 kg/ liter
Shelf life @ 77 °F /25 °C	12 months	12 months
Flash point - pensky martin	<77°F	< 25°C
Application Temperature	45 – 104°F	7 – 40°C

PROCESSING PROPERTIES (Under standard lab conditions)< 1.25 lb./gal	
Touch Dry	90 minutes
Dry Through	120 minutes
Recoat interval	5 - 90 minutes

Properties and values are highly dependent on equipment, spray gun, mix chamber temperature, pressure and related parameters. Values are slightly different for clear. Variations are possible and expected.