

**PRODUCT DESCRIPTION**

**KemOxy 5001** is a glass flake filled two component, specially formulated high build epoxy polyamine based primer. This is used where sandblasting, UHP water jetting, hydro blasting surface preparation method used. It has excellent moisture-tolerant characteristics, suitable for application to dry or green concrete, steel, glass etc. The glass flakes in the product ensure a tough, inert barrier for coating highly corrosive areas.

**INTENDED USES**

- Suitable for use in both new construction and as an overcoat in industrial maintenance.
- It can be used in a wide variety of environments including offshore structures, petrochemical & chemical complexes, bridges & structures ,storage tanks & pipelines, fertilizers industries, bridges, pulp and paper mills , Pilling underwater surface and in the power Industry.

**PRODUCT FEATURES**

- Excellent corrosion protection.
- Reinforced with glass flakes.
- Very good impact & abrasion resistance.
- Designed as a maintenance coating for coastal and industrially polluted environment
- Resists strong cleaning compound

**LIMITATIONS OF USE:**

- Colour change (Yellowing) may occur due to atmospheric UV exposure.

**SPECIFICATION DATA**

Colour : Clear to off white  
 Finish : Glossy  
 Reduction Solvent: T-3  
 Clean –up solvent: T-3  
 Volume Solids %: approx. 97 %  
 Recommended DFT/Coat: 75-100 microns  
 No of Coats: 1  
 Theoretical Covering Capacity (TCC):  
     : 13 m<sup>2</sup>/litre @ 25 microns DFT  
     : 9.70 m<sup>2</sup>/litre @ 30 microns DFT  
 Drying time at 30 °C:  
 • Surface Dry : 1-2 hrs  
 • Hard Dry : 16 hrs  
 • To recoat : min. overnight – max. 7days  
 • To full cure : 6-7 days  
 • Over Coating Interval : Overnight  
 Pot life : 4-6 hrs depending on an ambient temperature  
 Mixing Ratio: Part A : Part B  
                   2 : 1 by volume  
 Packing : 1 litre, 4 litre, 10 litre, 20 litre  
 Shelf Life : upto 12 months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

**PERFORMANCE DATA:**

Abrasion resistance: Good  
 Adhesion: Excellent  
 Flexibility: Good  
 Impact resistance: Excellent  
 Humidity Resistance: Excellent  
 Chemical Resistance:  
 Water : Excellent                      Alkalies: Excellent  
 Inorganic Acids: Excellent        Organic Acids: Exc  
 ExcGood  
 Organic Solvents: Good

**SURFACE PREPARATION**

**Previously Painted or Primed Surfaces:**

The surface to be coated must be dimensionally stable, dry, clean and free of oil, grease, release agents, curing compounds and other foreign materials. All bare areas must be primed with suitable primer i.e. **KemOxy 5001**. New steel must be grit blasted & glossy surfaces should be roughened before recoating. If any old paint that is peeling, flaking, cracking, blistering or lifting must be removed. Scuff sand glossy areas and aged epoxy coatings. All edges of the old coating must be feathered down to remove sharp edge.

**Bare Steel**

All surfaces shall be free of loose rust, millscale and contaminants such as oil, grease, dirt and salts. Before any surface preparation is attempted, oil and grease must be removed by employing SSPC-SP1 solvent cleaning. Use commercial Blast cleaning to SSPC-SP6 to remove millscale, rust and other contaminants and leave a roughened surface.

**Concrete and Masonry**

Remove all loose particles, oil, grease, form release agents and any other contaminants. New concrete and masonry must be allowed to cure for a minimum of 30 days. Before painting, roughen the surface by abrasive blasting, acid etching or scarifying.

**WARNING!** If you scrape sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.

**SPECIAL NOTES**

- Thinner consumption may vary depending upon site conditions.
- Practical covering capacity depends on application techniques, ambient conditions, wastage, surface conditions etc.

**DIRECTION FOR USE**

**Mixing Instructions:**

This two component product is mixed as a 4 to 1 ratio by volume of Part A to Part B. First, mix each Part A & Part B separately until uniform, then combine Part A & Part B and mix thoroughly till homogenous mixing. If the settling is observed in the base, loosen the settled material with help of hand stirrer followed by power driven stirrer. For best results, use a spiral mixing blade at a variable speed (400-600 rpm). Place the spiral mixing blade at the bottom of the container before turning on the mixer. This will help to avoid inducting air into the material. Inducted air will cause "bubbles" in the coating when applied. Gently move the mixer head up to the surface while running. Do not remove the head while it is still spinning. Allow the combined material to sit for an induction time of 30 minutes, and then lightly stir again to ensure uniformity. This product has workable pot life 4-6 hours at ambient temperature. Applying the material immediately after the 30 minutes induction time will provide best results.

Note: Higher air & mixture temperatures will decrease the pot life and working time.

**Application Information :**

Generally this paint is best applied by spray. Due to the rapid dry of this coating, only small areas may be coated by brush, applicator pad, or roller. Care must be taken to achieve the specified wet and dry film thicknesses. Uniform, even coats must be obtained. Large horizontal surfaces should be spray applied, however roller application can be performed.

**Application Methodes :**

- **Spray**– Use airless spray .
- **Brush**- Recommended for stripe coating and small areas, care must be taken to achieve the specified DFT.

**DIRECTION FOR USE**

**Application Equipment:**

Airless spray, brush or roller. Certain colors may require two coats depending on method of application and colour of the primer or intermediate coat.

**Airless Spray:** Equipment Recommendations: Binks Model Spray Gun or Equivalent \_\_\_\_\_

Airless Tip Orifice	Fluid Pressure	Binks Tip No
0.015"-0.021"	2000-2500 psi	9-1560 / 9-2150

CAUTION! Use 100 mesh manifold filter and gun with 100 mesh tip strainer. Use appropriate tip and atomizing pressure for equipment, applicator technique and weather conditions.

**Clean Up Instruction:**

Clean all equipment immediately after use with thinner T-3. At the same time, flush out all fluid lines and carefully clean pressure pots. Use clean solvent only. It is also good practice to periodically clean the spray tip or the fluid tip / air cap combination during the course of the working day or shift.

**PERFORMANCE STANDARDS**

Description	Test	Results
Adhesion	ASTM D 3359 Cross Cut Tape test	Excellent
Abrasion Resistance	ASTM D 4060 C 17 Wheels, 1000 gm load, 1000 cycles	60 mg
Impact Resistance	ASTM D 2794 Gardiner Impact, 7 Day Air Dry at 25°C	Excellent
Flexibility	ASTM D 522 Conical Mandrel Apparatus	Passes
Chemical Resistance	5% NaOH	No Effect
24hr Covered Watch	5% H <sub>2</sub> SO <sub>4</sub>	No Effect
Glass Spot Test	100 % Xylene	No Effect
	100% Mineral Spirits	No Effect
Hardness	ASTM D 3363 Pencil 7 Day Cure	6H
<b>Exterior Durability</b>	ASTM G 53 Accelerated aging via exposure to Fluorescent, Ultraviolet and Condensation	Poor
Salt Fog Resistance	ASTM B 117 Salt Spray Test	500hrs -No Effect
Immersion	Ambient	1500hrs-No Effect
Graffiti Resistance	Crayon, Ink Pen, Marker, Shoe Polish	Excellent
Hot Water Immersion	80°C	1500hrs-No Effect

**ENVIRONMENTAL, HEALTH & SAFETY INFORMATION**

**DANGER!** Flammable Liquid and Vapor. Harmful if Inhaled or Swallowed. **Contains: Xylene, Epoxy Resin and Glycol Ethers.** May affect the brain or nervous system causing dizziness, headache or nausea. Causes Eye, Skin, Nose and Throat irritation. May cause allergic skin reaction.

**IMPORTANT:** Designed to be mixed with other component. Mixture will have hazards of both components. Before opening packages read all warning labels. Follow all precautions.

**NOTICE:** Repeated and prolonged exposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvents levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. To avoid breathing vapors or spray mist, open window and doors or use other means to ensure fresh air entry during application & drying.

**Keep away from heat, sparks and flame.** Vapors may cause flash fire. **Use only with adequate ventilation.** Do not breathe vapors, spray mist or sanding dust. Do not get in eyes or on skin.

**FIRST AID:** If affected by inhalation of vapors or spray mist, remove to fresh air. In case of eye contact, flush immediately with plenty of water at least for 15 minutes and call a physician for skin, wash thoroughly with soap and water. In case of ingestion – Do Not Induce Vomiting, get medical help immediately.



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