



ChemMask 1100 is a two-component paint based on phenolic epoxy resin. It has excellent resistance to strong acid such as 98% sulfuric acid and is the solvent free epoxy paint with excellent water resistance and corrosion protection.

Recommended use	It is used for structural steel, trench sump, chemical spillage, around facilities that require acid and chemical resistance.
------------------------	---

Physical Properties

Finish and Color	Semi-gloss. Cream, Grey
Specific gravity	Approx. 2.09 for Mixture of Base and Curing agent.
Solids by volume	Approx. 100 % (Determined by ISO 3233)
Spreading rate (Theoretical)	3.33 m ² /L in 300 μm dry and wet film thickness on a smooth surface. (Recommended coatings may be applied differently depending on specification)
Flash point	Base (ChemMask 1100-A) : 46 °C / 114.8 °F (Closed cup) Curing Agent (ChemMask 1100-B) : 39 °C / 102.2 °F (Closed cup)
Volatile Organic Compounds(VOC)	Korea Clean Air Conservation Act (including maximum dilution ratio) : 107 g/L (Determined by KS M ISO 3251)

Application details

Surface preparation	Remove any oil, grease, dirt and any other contaminants from the surface before painting by proper method such as solvent cleaning and fresh water washing, etc. 1) Steel (Mild, Carbon) * Blast cleaning to Sa2.5. 2) Concrete * Must be cured at least 28 days at 20°C/68°F and below 50%RH and surface water content should be less than 6% dry. * The laitance and other impurities of surface must be removed by grinding or abrasive blasting.
Preceding coat	1) Carbon Steel * New application - Painting alone acid resistance epoxy ChemMask 1100 * Repair application - After surface cleaning of old coating, please hope pre-painting by "KOREPOX H.S. EH4158HM". 2) Concrete * New application - Preceding painting is applied by "UNIPOXY PRIMER or according to specification". If necessary, In case of big hole and crack please hope filling up treatment by "UNIPOXY PUTTY". * Repair application - After surface cleaning of old coating, please hope pre-painting by KOREPOX H.S. EH4158HM.
Method of application	Airless spray, Roller or Brush application. For airless spray application ; Pump ratio : 73 : 1 Nozzle orifice : 483 μm ~ 686 μm (0.019" ~ 0.027")

Output pressure : 36 ~ 44 MPa
 Fan : 40 ° ~ 60 °
 (Airless spray data are indicative and subject to adjustment)
 Listed above are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Mixing	Base (Part A) : Curing Agent (Part B) = 12.7 : 2.3 (by volume) * Mix thoroughly together prior to application in the proportions with power agitator as delivered.					
Thinning	No thinning (If necessary, Thinner No. TH0260 within max. 10%) * Do not dilute each component separately. * Use of thinners other than those supplied or recommended by KCC may adversely affect product performance and void product warranty, whether expressed or implied.					
Application conditions	* The surface should be completely cleaned and dried. Do not apply when relative humidity is above 85 %. * The surface temperature should be at least 2.7 °C (5 °F) above dew point to prevent condensation. * In confined areas, ventilate with clean air during application to assist solvent evaporation.					
Film thickness	300 μ m dry film thickness per 1coat. * Depending on the purpose and the area of use, different film thickness may be applied.					
Drying time	Substrate Temperature	5°C / 41°F	10°C / 50°F	20°C / 68°F	30°C / 86°F	
	Set to touch	10 h	6 h	3 h	2 h	
	Dry through	26 h	20 h	10 h	8 h	
	Recoating Interval (Min)	26 h	20 h	10 h	8 h	
	Recoating Interval (Max)	5 days	5 days	5 days	5 days	
	* The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions should be checked and informed by KCC. * Before overcoating, remove the oil, salt, chalking material and any other contaminants on aged coating film completely by proper cleaning method such as solvent cleaning and / or fresh water washing.					
Pot life	1h at 20°C / 68°F * Pot life may be shorter under higher temperature and humid conditions.					
Chemical Resistance		Acids	Alkalis	Solvents	Salts	Water
	Spillage	◎	◎	◎	◎	◎
	Fumes	◎	◎	◎	◎	◎
(NR : Not Recommended, X : Bad, Δ : Normal, ○ : Good, ○○ : Excellent, ◎ : Very Excellent) * Product's chemical resistance list use the after inquiry in advance with our TSD and technical team.						

Storage and package	
Shelf life	12 months (77°F / 25°C)
Storage	Do avoid humidity and direct light.
Packing Unit	15 L (ChemMask 1100-A : 12.7 L, ChemMask 1100-B : 2.3 L)

Remarks	
Note	* Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors. * Use with adequate ventilation.

- * Respiratory protection is recommended when applying this product in confined spaces or stagnant air.
- * This product can be discolored by UV-rays in case of applied to area exposed sunlight.
- * ChemMask 1100 may change the color of a coat depending on chemical spillage or fumes.
- * Note that the paint performance may be changed when exposed to high temperature.

1'st issue	2018-03-15
Revision	2020-11-19

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

