

CS CLEAR

Solvent Free, Clear, UV Resistant, Epoxy System

Product Description

CS CLEAR is a 2-component solvent free, clear, UV resistant properties. This is a standard liquid epoxy resin based system designed for creative applications such as a Art, 3D and Metallic floor coating , Table Top and many more.

Where to Use

Malls and departmental stores
Residential bungalows, Commercial complexes and condominiums,
5-star hotel lobbies, kitchens and utility areas Showrooms Path-ways in landscaping, swimming-pool decks, Jewellery, countertop , wood furniture etc.



Advantages

Excellent scratch resistance
Excellent abrasion resistance
Excellent stain & chemical resistance
High gloss
High aesthetics
Fast cure
Fast track free
UV resistant for outdoor application
High durability
Clear or Coloured
Solvent free

Appearance / Colour

Part A – resin :-clear, liquid
Part B – hardener :- clear, liquid
Part C – Colour paste (EPI). Colour as per CHIMIQUE SOL shade card

Ratio by weight

2 : 1

Packaging

Set packaging

Storage Conditions / Shelf Life

12 months from date of production if stored in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.

Chemical Base

Modified Epoxy

Density

mixed: ~ 1.1 to 1.2 g/cc

Viscosity

Resin : 2000 - 3000 cP, Hardener : 50 - 100 cP, Mixed : 1200 - 1600 cP

Mechanical / Physical Properties

Compressive Strength	55 N/mm ²
Flexural Resistance	31 N/mm ²
Tensile Resistance	23 N/mm ²
Abrasion Resistance	40 mg weight loss (Taber Abraser), 28 days
Adhesion	>1.5 N/mm ²
Shore D Hardness	80
Gardner Impact (in.lbs)	>160
Direct/reverse	
Ultimate Elongation	25%
QUV-A (500hrs)	< 3.5

Stain Resistance (Spot Test Method – ASTM D1308)

Staining Agent	Exposure Time	
	1 day	7 days
Coffee	+	+
Cola	+	+
Grape juice	+	+
Ketchup	+	+
Mustard	+, transient yellowing	+, moderate yellowing

Chemical Resistance (Spot Test Method – ASTM D1308)

chemical	Exposure Time	
	1 day	7 days
10% Acetic Acid	+	+
100% Ethenol	+	+
50% Sulfuric Acid	+	+
10% Sodium Hydroxide	+	+
10% Hydrochloric Acid	+	+
Xylene	+, blisters	-, blisters

Z+ denotes no effect, - denotes some effect to coating



Application Details

Consumption / Dosage	CS CLEAR ~ 1.1 to 1.2 kg/m ² @ 1mm thickness
-----------------------------	---

Substrate Quality	The concrete substrate must be sound and of sufficient compressive Strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . The substrate must be free of all contaminants such as oil, grease, Coatings and surface treatments etc. If in doubt, apply a test area first.
--------------------------	---

Substrate Preparation	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate CHIMIQUE SOL products. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
------------------------------	---

Substrate Temperature	+1°C min. / +35°C max.
------------------------------	------------------------

Mixing	Stir Component A first for approx. 15 seconds. Add component B, and mix for approx. 1 to 2 minutes with low speed mixer.
---------------	---

Application process & Tools	Prior to application, confirm substrate moisture content. If > 4% moisture content, CHIMIQUE SOL Tuffcem may be applied as a Temporary Moisture Barrier (TMB) system. Make sure that a continuous pore free coat covers the substrate. Apply CS CLEAR by brush, roller or trowel.
--	--

Recommended Undercoats & overcoats	Primer : CS 20 / CS 24 / CS MCPU Screed : CS 60 Sealer : CS 24 / CS 60 3D : 3 D picture (if applicable) Top coat : CS CLEAR
---	--

Cleaning of Tools	Clean all tools and application equipment with CHIMIQUE SOL Epoxy Thinner (ET 901) immediately after use.
--------------------------	---



Potlife

Temperatures	Time
+25°C	~ 15 to 30 minutes

**Waiting Time /
Overcoating**

Substrate temperature	Waiting	
	Minimum	Maximum
+25°C	8 hours	-

Curing Details

**Applied Product
ready for use**

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	24 hours	-

Note: Times are approximate and will be affected by changing Ambient and substrate conditions.

**Cleaning/
Maintenance**

Spillage of any kind should be cleaned quickly.
Use mild detergent & water to clean the coating regularly.
Scrubbing can be done by using soft bristles.

Value Base

All Technical data stated in this Technical Data Sheet are based on laboratory tests.
Actual measured data may vary due to circumstances beyond our control.

**Health and
Safety**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of CHIMIQUE SOL's products, are given in good faith based on CHIMIQUE SOL's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with CHIMIQUE SOL's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. CHIMIQUE SOL reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Technical Data Sheet for the product concerned, copies of which will be supplied on request.
