

Protection through Precaution



Chemisight
RESINS TECHNOLOGIES

CHEMIFIX C.N.S.L.
(Cashew Nut Shell Liquid) Mortar

OUR PRODUCT RANGE:

Cement

Chemifix F (Furan)
Chemifix PH (Phenolic)
Chemifix KS (Pottasium Silicate)
Chemifix SS (Sodium Silicate)
Chemifix CNSL (Cashew Nut Shell Liquid)

Unsaturated Polyester Resin

Chemifix ISO (Isophthalic Grade)
Chemifix SGP (Superior G.P. Grade)
Chemifix GP (General Purpose Grade)
Chemifix RG (Roof Grade)
Chemifix BG (Button Grade)

PHYSICAL PROPERTIES :

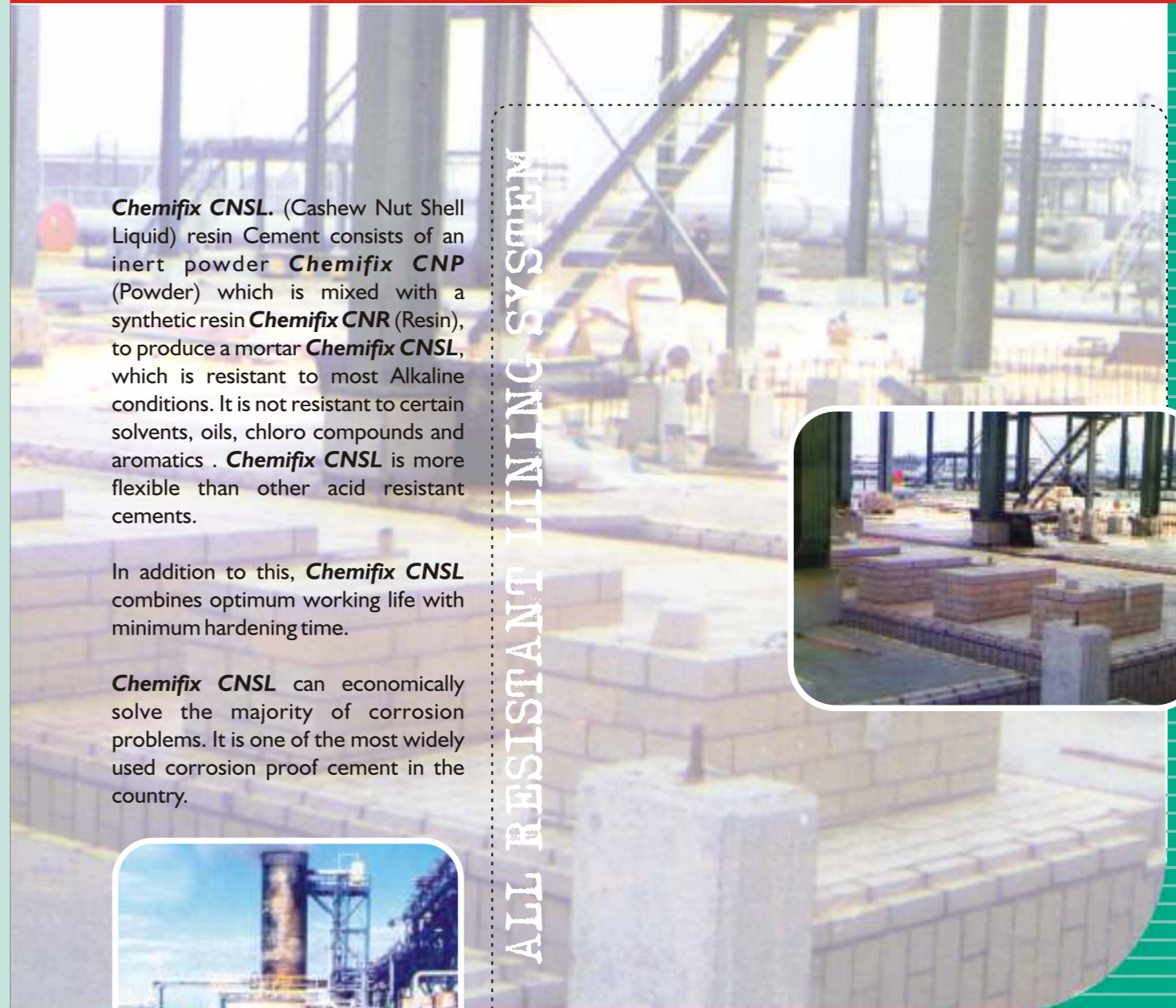
	Furane	Phenolic	K-Silicate	CNSL	Sulphur	Epoxy	Polyester
Colour	Black	Black	Off White	Black	Black	Off White	Off White
Ratio (Solution : Powder)	1:3	1:3	1:3	1:3	Hotmelt	1:5	1:5
Compressive Strength (kg/cm ²)	350	350	150	280	250	500	500
Flexural Strength (kg/cm ²)	75	75	40	75	70	150	150
Bond Strength (kg/cm ²)	10	10	05	10	10	10	12
Water Absorption (max %)	01	01	18*	01	01	01	01
Temperature Resistant (max °C)	170	170	900	190	90	90	90

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CHEMIFIX

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Chemifix CNSL. (Cashew Nut Shell Liquid) resin Cement consists of an inert powder **Chemifix CNP** (Powder) which is mixed with a synthetic resin **Chemifix CNR** (Resin), to produce a mortar **Chemifix CNSL**, which is resistant to most Alkaline conditions. It is not resistant to certain solvents, oils, chloro compounds and aromatics. **Chemifix CNSL** is more flexible than other acid resistant cements.

In addition to this, **Chemifix CNSL** combines optimum working life with minimum hardening time.

Chemifix CNSL can economically solve the majority of corrosion problems. It is one of the most widely used corrosion proof cement in the country.

ALL RESISTANT LINING SYSTEM



PHYSICAL DATA

Tensile strength	: 200-300 lb per. sq. in
Temperature limit	: 190°C
Porosity (Max.%)	: 01
Mixing ratio : C.N.S.L.	: Powder: Resin 3:1 by weight
Adhesion to unglazed (kg/cm2)	: 10
ceramic ware Shelf life	: Syrup : 3 months if kept cool, dry and containers sealed. Powder : Should be used as fresh as possible.

Application Area

Chemifix CNSL is widely used for bonding or pointing of bricks/tiles for anti-corrosive constructional work areas like Tanks, Channels, Floors, Foundations, Pits, etc.

Application Method

Chemifix CNP (Powder) and **Chemifix CNR** (Resin) are to be mixed in the ratio of 3:1 PBW very carefully in a clean, enamelled bowl. Mixing should be done by adding powder to Resin in small quantities. The CNSL mortar produced should be used up within 20 minutes from mixing. Some heat will be produced in the setting of CNSL mortar, so it is important to spread the mixed CNSL mortar in a thin layer. The hardening time will take upto 2 to 3 hours when the conditions are warm.

- All surfaces to which **Chemifix CNSL** mortar is to be applied must be dry, clean and rust free. No water, steam or acid should be allowed to come in contact with the mortar during setting and hardening.
- **Chemifix CNSL** should not be applied directly to concrete surface or steel surface.
- Depending upon the chemical and operating conditions as well as the base structure (Concrete or steel) suitable non-porous Membrane / Inter-liner should be provided. Some of the suggested inter protective layers are Mastic, Rubber, FRP, Epoxy/Synthetic Screeds and FlexyVinyl Sheet (PVC). Membrane should be provided as per standard recommendations.
- Mixing ratio can be adjusted to about 10% according to site conditions.
- Always prepare that much quantity which can be consumed within the working time at the prevailing site condition.
- Apply prepared mortar to the backside of the tile/brick. The bedding thickness will be about 6mm. Place the tile/brick on inter protective liner applied on concrete surface and press it firmly, so that the bedding is uniform.
- Maintain required joint width using spacer blocks.
- Surplus material should carefully scraped off with a trowel.
- Before carrying out the pointing with **Chemifix CNSL** Mortar, joint should be cured with Hydrochloric Acid for a period of 24 hours consisting of one part by volume of commercial Hydrochloric Acid and two parts by volume of water.
- The cured joint should be free from foreign matter before filling it with **Chemifix CNSL** mortar.
- The working time and setting time of **Chemifix CNSL** mortar depends to the extent on its age, temperature and humidity at the working site. Use of ice bath is recommended while preparing the mortar during temperatures above 35 C. The mixed mortar in the form of lumps generates heat and reduces the working time.
- In winter and monsoon the hardening time of mortar may vary.

Storage:

Keep both the powder and Resin in cool, dry and in tightly closed conditions, preferably in cold storages.

Shelf life:

Chemifix CNP (Powder)-6 Months at 35°C

Chemifix CNR (Resin)-3 months at 20° C or 6 weeks at 35°C

Packaging:

Chemifix CNP (Powder)-37.50 Kg. HDPE Bag Pack

Chemifix CNR (Resin)-35 Kg. / 200 Kg. Drum Pack

CHEMICAL RESISTANCE PROPERTIES

CHEMICAL	RESISTANCE
ACIDS	
1 Sulphuric acid (to 70%)	Resistant
2 Hydrochloric acid (to conc.)	Resistant
3 Nitric acid (to 10%)	*Limited
4 Acetic acid (any strength)	Resistant
5 Chromic acid (to 10%)	*Limited
6 Phosphoric acid (any Strength)	Resistant
7 Lactic acid (to 40%)	Resistant
8 Hydrofluoric acid (to 40%)	(Special Grade)
ALKALIES	
1 Ammonia .880	Resistant
2 Sodium hydroxide (to 40%)	*Limited
3 Sodium carbonate (to conc.)	Resistant
4 Calcium hydroxide (to sat sol.)	Resistant
SOLT SOLUTIONS	
1 In general	Resistant
SOLVENTS	
1 Hydrocarbons (aliphatic)	Unsuited
2 Hydrocarbons (aromatic)	Unsuited
3 Alcohols	Resistant
4 Ketones	Resistant
5 Chlorinated hydrocarbons	Unsuited
OTHERS	
1 Mineral oils	*Limited
2 Vegetable oils	Unsuited
3 Fats and greases	*Limited

* Suitable in certain conditions according to chemical conditions. Consult Suppliers.