YASMO MISR
CHEMICALS FOR CONSTRUCTION

21 Takseem el Awkaf Sawah Square behind Kobba palace
Tel: 002 02 24535678 24535679 24538986 01227799520

CEMLASTIC

TECHNICAL DATA SHEET

1.0 Description:

- Two component non-toxic elastic polymer-modified cementitious base with unique elastic advantage used for water and damp proofing of concrete and cement substrata.
- Flexible cement slurry combines the advantages of durability of cement & flexibility of resin.
- Excellent adhesion for all surfaces.
- Flexible enough to withstand hair cracks.

2.0 Uses:

- Due to its high elasticity, CEMLASTIC is applicable on different structures including those subject to thermal movement and vibration.
- Water proofing and protection of Water structures under pressure, like water storage tanks, swimming pools, concrete pipes, bridge parapets, water canals, etc.
- Water proofing and protection of underground external walls.
- Water proofing against hydrostatic water pressure of walls and floors in basements and other below ground structures.
- Waterproofing of terraces and balconies on concrete and old tiles substrates.
- For proofing of concrete surfaces cracked by shrinkage.
- Elastic coating of precast concrete surfaces, subject to flexural loading and vibration, etc

3.0 Approval &Certification:

Water Permeability	: EN 12390-8
Pull off Strength to Concrete	: ASTM D7234
Bend Test	: ASTM D522
Toxicity Effect Test	: EN 150 11348

4.0 Colours:

Grey / white Cementous colours

5.0 Product Data:

5.1 General:

Pull off test	: 1.93	N/mm^2
Density of Mix (Powder + liquid)	: 1.72	gm/cm^3 after mixing the two components
Solid Content	: 85%	
Bonding agent	: Hydraulic synthetic resins	
Toxicity	: No toxicity effect on drinking water	(EC50>100)

5.2 Water Permeability (5Bars):

350 % decrease in permeability is achieved by applying 2.5kg/m^2 (2coats).The degree of resisting water head depends on the applied rate of CEMLASTIC. For min diffusion under 7 bars 6-7 kg/m^2shall be applied.

Direction	Time (hrs.)	Thickness (mm)	Pressure (bar)	Penetration (mm)	
+ve	72	1	7	63.7	22.8
				65.1	21.6
				64.9	21.9

21 Takseem el Awkaf Sawah Square behind Kobba palace
Tel: 002 02 24535678 24535679 24538986 01227799520

5.3 Mandrel Bend test after 28days:

Mandrel Diameter (mm)	Results
35	No Crack
30	
25	
20	
15	
12.7	

6.0 Film Thickness:

Wet Film Thickness	: 600 - 1200	microns
Dry Film Thickness	: 500 - 1000	microns

Note: Above film thickness depends on application system

7.0 Consumption per coat:

Consumption (P+L)	: 1.0-2.0	kg/m^2/coat

Note: Above consumptions depend on application system

8.0 Surface Preparation:

- Conventional concrete curing compounds should be removed before application.
- Any concrete treatment shall be removed before application.
- Substrata should be cleaned from oil. Grease, dust ....
- Spelled concrete should be cut back until reaches sound concrete and repaired with suitable repairing mortar.
- Substrate surface temperatures are above 5°C and lower than 35°C,
- Damaged areas shall be repaired using the suitable mortar.
- Construction joints should be repaired using suitable mortar.
- Clean substrate before application.
- Wet substrate before application.

9.0 Application Methods:

1. Clean the surface from loose particle, oil, grease, or any foreign materials.
2. Add. Powder (comp. B) to liquid (Comp. A) & stir manually or using a low-speed mixer till the mixture becomes homogeneous.
3. Damp the substrate with water before applying CEMLASTIC (no standing water).
4. Using a brush apply the first coat.
5. Apply the needed successive layers one coat per day.
6. Cure for three days using water.

Notes:

- *Temperature of the substrate should be min 10°C and below 40°C.*

- *Good ventilation should be ensured*
- *Depending on type of application, min two coats are always required. Three coats may be required in areas of extremely high infiltration.*

10.0 Weight and Product mixing Ration by weight:

Powder : Liquid	: 3.65 : 1.00	by weight
Container of Powder component	: Double Sealed plastic bags	
Container of Liquid component	: Plastic Jerkin	
Powder Component weight	: 19.625	kg
Liquid component weight	: 5.375	kg
Total weight	: 5kg, 25kg	kg

Notes:

- *Slow Mechanical Mixing is recommended*
- *Mixed components should be transferred to a third container and remixing should take place to reach ultimate results*

11.0 Pot life, Drying and curing time:

Initial Curing Time	: After 24 hours of mixing.
Curing Treatment	: Moist curing is recommended for the first 24 – 48 hours according to ambient temperature.
Final Curing Time	: After 28 days at ambient temperature.
Pot Life	: 30 min. at 24^{0}C
Recoating	: after 24 hours

12.0 Curing:

- AS with all cement-based products In severe heat or wind, protection is recommended.
- Protect newly applied products against direct sunlight, wind, rain and frost.

21 Takseem el Awkaf Sawah Square behind Kobba palace
Tel: 002 02 24535678 24535679 24538986 01227799520

13.0 Disclaimer:

- The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. We cannot guarantee anything but the above-mentioned quality of the products themselves. Minor product variations may be implemented to comply with local requirements. We reserve the right to change the given data without further notice. Users should always consult us for specific guidance on the general suitability of this product for their needs and specific application practices.
- Samples of any approved delivered materials shall be retested after delivery.
- These products are for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to our technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to our responsible representative for approval before commencing the work.

14.0 Handling of Cement Products:

- Avoid contact with eyes and skin. Emergency showers and eyewash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.
- Use personal protective equipment.
- When using, do not eat, drink, or smoke.

15.0 Compatibility:

- Primers applied prior to specified product shall always be acrylic or cement-based products.
- Finishing layers can be cement, acrylic, alkyd, epoxy or polyurethanes products.

16.0 First aid Measures:

- General advice: Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
- Skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Initiate and maintain gentle and continuous irrigation.
- Take off contaminated clothing and shoes immediately.
- Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation: Move to fresh air.

17.0 Storage:

- Store above ground and surrounded by dikes to contain spills or leaks.
- Do not store in humid or extra hot weathering conditions.
- Keep containers tightly closed away from heat &in dry, cool, and well-ventilated place.