



AROPLEX

INTRODUCTION :

AROPLEX is a Sodium Silicate Based Cement.

AROPLEX is resistant to wide varieties of acid conditions and shall withstand temperatures up to 650° C, prevailing in chemical plant industries.

AROPLEX sets hard & dense. It is very easy to use & apply.

PREPARATION :

Mix 2.5 to 3.0 parts of powder (by weight) to one part of solution (by weight) to form the mortar. The mixing proportion may slightly vary due to temperature conditions prevailing at the time of mixing.

Mix only that much quantity, which can be used in about 15-20 minutes. When the mortar starts to set it should be discarded and should not to be used.

CONSTRUCTION NOTES :

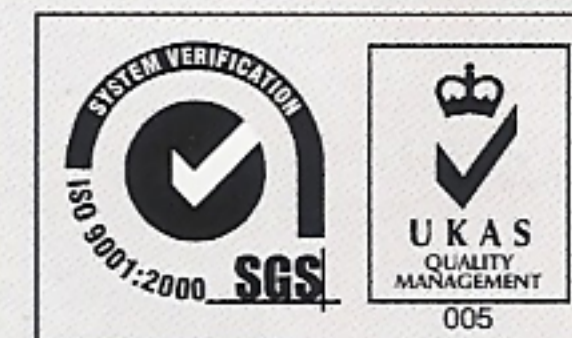
- The place of brick work must be kept dry at all times until the mortar becomes hard and acid cured.
- The bricks/tiles must also be absolutely dry.
- Brick lining should not be carried out at the temperatures below 10° C.
- The joints of the bricks or tiles must not be more than 4 to 5 mm wide.
- Butter the bricks/tiles with excess mortar and slide them in place, then tap them firmly to have uniform spread and minimum joint. Cut off excess mortar extruded from the joints.
- Allow bricks/tiles work to cure for two days. Then treat all the joints with either 20% Hydrochloric acid or 30% Sulphuric acid before put into service.
- When lining on concrete surfaces, the concrete should be first protected with impervious mastic membrane with over 1 or 2 coats of **AROPRIMER**. Steel surfaces should be protected with either rubber lining, P.V.C lining, FRP lining or Teflon lining, depending upon the chemicals being handled and temperatures of the solution. The membrane is then protected with acid proof brick/tile lining. After acid curing is done as above, the lined surface is ready to be placed in service.

Consult our technical department for definite recommendations.



*Sturdy, Strong, Reliable,
Modern...only Arcoy*

**CORROSION
NO ENTRY**



AROPLEX

USES :

AROPLEX is widely used for acid-proof brick/tile lining in chemical plant equipments like towers, tanks, chimney, stacks, ducts etc. because of its great resistance to acid concentrations and high temperatures.

RECOMMENDATIONS :

Recommended for Chemical Plant, Dyes & Intermediate Industries, Refineries, Petrochemicals, Fertilizers, Battery Manufacturers etc. Where mineral acids (except hydro flouric) such as Hydrochloric, Sulphuric (alone or in combination), Nitric, Phosphoric and Chromic acids are used or dealt with.

NOTE : **AROPLEX** is not recommended for alkaline and aqueous media.

SHELF LIFE : 1 Year at room temperature (under shade) from the Date of Mfg.

PHYSICAL DATA :

Sodium Base Silicate type Chemical Resistant Mortars when tested meets I.S. 4832 (Part I)

PROPERTY	REQ. AS PER IS 4832 PART I	ARCOY'S TEST RESULTS
Working time. Min at 27°C +/- 2°C	15	20
Compressive strength min. kg/cm ² (at 7 days)	100	125
Flexural strength min kg/ cm ² (at 7 days)	35	40
Bond strength min.kg/ cm ² (at 15 days)	5	5
Absorption of Toluene Max. percent (by weight)	18	15

SERVICE :

The ARCOY Technical department is maintained to provide assistance and advice on any problem of acid or alkali- proof construction. Write to us about your service conditions to obtain prompt recommendations and design suggestions. We will be more than glad to be of assistance.

ARCOY INDUSTRIES (INDIA) PVT. LTD.

606, Abhijeet-I, Mithakali Six Roads, Ellisbridge, Ahmedabad - 380 006. INDIA
Phone : (91) 79-26401228, 26427762, 26425300 Fax : (91) 79-26561331
E-mail : contact@arcoy.com • arcoy@icenet.co.in • Visit us at : www.arcoy.com