


PRODUCT DATA



FAME™ - 2060 UNI-BOND ADHESIVE **(AN IDEAL CEMENT ADMIXTURE, INTEGRAL WATER PROOFER, SURFACE SEALER, BONDING ADHESIVE & PROTECTIVE COATING)** **(CHLORIDE FREE)**

INTRODUCTION

 - 2060 UNI-BOND ADHESIVE is an Acrylic-Latex co-polymer formulated for use as an ideal cement admixture, integral water proofer, surface sealer, bonding adhesive and protective coating for multifarious applications:-

- **In CIVIL CONSTRUCTION field;** as an ideal admixture compatible with all types of OPC, SRC or high alumina cements to suit tropical conditions guaranteed to perform highly efficiently. This has effective plasticizing action in cement mortar facilitating convenient application in varying dosages. The product performs as an integral water proofing system completely saving “steel” the core element from rust/corrosion by way of forming continuous films and strands; and strong bond between particles of cement and sand. Uni-bond besides increasing wear, tear and abrasion resistance makes the surfaces resistant to weathering, chemicals, fungus, salt & alkali specially highly recommendable for water logged, coastal areas, waste water ponds, canals, tanks, reservoirs, saline and effluent drains.
- **In HVAC;** as adhesive to bond different substrates including delicate products like styropole/thermopole and protective anti-fungus coatings over ducts.
- **In PACKAGING, FURNITURE/FIXTURE & OTHER Industrial & Commercial applications;** for Bonding, Pasting, Coating, Labeling, Sizing, Lamination, Textiles, Heat Sealing etc as a soft binder to suit many surfaces. It is an ideal adhesive to bond wood, chip/hard board, card board, bricks, tiles, stone aggregates, metals, fabrics, polystyrene/ thermopole, plastics etc. It is perfectly fit and safe to be used as protective coating over concrete, wood, metal, fabric, thermopole/styropole,


USAGES

Typical usages of  - 2060 UNI-BOND ADHESIVE are given below:-

- As CEMENT ADMIXTURE for Concrete/Plastering jobs with varying dosages for standard 50 Kg. Bag of OPC 1.0 to 2.5 Kg. & SRC 1.0 to 1.5 Kg. depending upon the nature of the job and soil condition.
- As BONDING AGENT for old to new surface, patching and repairing works - mix with water 1:1 and brush coat twice allow to develop tackiness and then do the pouring/patching.
- As Machinery Installation foundation preparation, non-shrink grouting, pavements and corridors use @ 2.5 Kg. Per bag of cement.
- As ceramic/marble tile bedding adhesive make rich slurry (1:1 cement:fine sand) prepared with 1 part Uni-bond mixed to 3 parts of water. Apply through brush 1 part Uni-Bond mixed to 1 part of water after cleaning the surface as primer 3 hours before tiling.
- As sealant for sealing/plugging seepage/leakage - dewater & dry the surface, apply 1 coat as primer coat, make a rich mixture using Uni-bond 1 part to 1 part by weight of cement and apply on the culprit area and repeat after 2-3 hours. To achieve quick drying use hot air gun.

Note:

- 1-Use potable water only. Premix Uni-Bond Adhesive in designated amount of water.
 - 2- Do not mix Uni-Bond directly with the cement.
 - 3- Conduct hydration after the surface is set to touch or when the green effect is achieved using Uni-Bond 1 part to 2½ parts water 1st hydration & thereafter with plain water as per rules.
- The product can also be used as an adhesive to bond numerous substrates together and can be safely used on polystyrene/thermopole and such other delicate materials. The bond so achieved remains unaffected by atmospheric conditions particularly in tropicalized zones.

ADVANTAGES of the use of  - 2060 **Uni-Bond Adhesive in Civil Construction** is summarized below:-

- **Increased** - tensile strength, adhesion to steel & concrete, resistance to salt penetration & chemical attacks, adhesion properties & abrasion resistance allowing use of thinner mortar layers, flexibility and resistance to cracking, flexural strength of mortar and concrete; (ASTM C 190-85, BS-6319 part 2:1983)
- **Allowing** - lower water-cement ratio, high resistance to weathering & local mechanical damages and does not produce further detrimental effects;
- **Compensates** - slurries & mortars for many deficiencies in the mixes without affecting their inherent strength & properties;
- **Helps** - make concrete/plaster impermeable to atmospheric carbon dioxide eliminating promoting carbonation on penetration;
- **Gives** - increased flexibility & greater resistance to cracking;
- **Hinders** - penetration of chlorides at places exposed to spraying water such as road bridges;
- **Controls** - plastic volume change resulting non-shrink concrete by about 0.05%;
- **Prevents** - bleeding from concrete;
- **Retards** - dehydration of the lean concrete/ mortar in higher dosage.

BEHAVIOUR

The product while wet is safe in handling and to body contact, non-toxic, non-corrosive and non-flammable in nature.

Dried film performing as a breathing membrane when dried perfectly is water proof, resistant to mildew, organic growth, mineral oils, aliphatic solvents, dilute acids/alkali, saline water, U/V, insulator in nature & resistant to aging is excellent. (ASTM D-3278)

DRYING

Air drying however, complete curing is achieved after 12 hours. Film properties and bond strength improves remarkably by passage of time.

PHISIO-CHEMICAL BEHAVIOUR

When used as admixture in Civil Construction (Concreting / Plastering / Tile Pasting / Grouting) appropriately the surface resists mild acids, alkali, sulfating, chlorides, ammonia, sugar etc.

SPECIFICATIONS

Color	: Bluish white emulsion turning into transparent film on drying.
Odor	: Mild resinous in liquid state. Dried film odorless.
Solids	: 52±1% non-volatile (ASTMD-1644)
Sp. Gravity	: 1.22°Baume
Density	: 1.10Kg./Litre (ASTM D-1475)
Coverage/Kg.	: 130 Sq. Ft. on moderate porous surface if applied by brush or roller.

FLEXIBILITY

When used as coating the cured seamless membrane stretches beyond 250% at 30 C at 60% relative humidity (ASTM C-765)

DILUENT/CLEANER

White Spirit (S.M.T.) or D.O.P.

STORAGE/SHELF LIFE

2 years if stored in air tight container at 25 °C

PACKING & DELIVERY

The product is available in 25/30 Kg. Plastic Cans from ready stock.

Important Notice:


The information submitted in this leaflet is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments, neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislations are observed.


- 2060 UNI-BOND ADHESIVE
MAJOR USES IN CIVIL CONSTRUCTION


1. CEMENT ADMIXTURE (ASTM-C-494-81 TYPE A)

This product is formulated SPECIALLY to be used with Mortar/Concrete as an admixture in Cement Plastering, Block Making, For Ready Mix Cement Concrete Mixtures to considerably increase Water Proofing, Salinity/Chemical Resistance, Wear Resistance, Flexibility, Smooth Workability, Corrosion Protection of Steel, Bonding Strength and Durability with best results. Particularly specified for Basements, Water Reservoirs, Sub-soil and Water Logged areas as per recommended (or tested) ratio providing fast setting properties of cement and aggregates increasing the Compressive and Tensile strength remarkably. It also helps to prevent penetration/permeability of water into concrete to such an extent that further corrosion of reinforcements could be retarded. Normally in Concrete/Mortar mixture used as Concrete Binder @ 2.0 to 2.5 Kgs. for OPC and 1.0 to 1.5 Kgs. for SRC per 50 Kg. bag of cement added and mixed previously in the required quantity of water, is suitable for better end results depending upon soil/atmospheric conditions. For Cement/Mortar Plastering Coats 1.5 Kg. /bag of cement is advisable. Fast curing of cement is achieved by the use of **Uni-Bond Adhesive** in the ratio of 1.0 Kg./ bag of cement. Early hydration after 8 hours or as soon as cement is set to touch is required when used in plastering jobs.


2. BONDING NEW CONCRETE TO OLD CONCRETE AND CEMENT PATCHING OR REPAIRING JOBS:

Clean the old surface to remove any dirt, oil or grease and prime it with -2060 Uni-Bond Adhesive diluted to 3 times by water (1:3). If the surface is wet increase concentration of primer as 1:1. Apply second coat diluted with two parts of water (1:2), after 2 hours. Allow to dry for 1 hour to develop slight tackiness and patch with a rich mortar/cement-sand mixture prepared preferably with Uni-Bond mixed water in the ratio of 1 part to 3 parts of water ensuring that there are no air pockets or cavities left inside. Fill the mixture compactly and uniformly to level the surface. Protect and cure in the normal way for 3-4 days. For hydration please refer point No.6.

3. BEDDING/LAYING/FIXING TILES:



Clean the surface thoroughly and prime it uniformly with -2060 diluted with 3 parts of water (1:3) repeated by 2nd coat diluted with 1 part of water (1:1) after 4 hours. Prepare a bedding adhesive for Tile Fixing, using 1 part Uni-Bond by weight to 2 parts of water, mixed to make a thick slurry with Gypsum plaster or White cement. This is applied spreading by trowel or any other suitable mean in uniform thickness and tiles are arranged closely with the grouting done with the same slurry. Let it be dried perfectly to achieve perfect bonding. The tile grouting area must be perfectly sealed by the Uni-Bond mixed cement slurry.

4. SEALING/PLUGGING WATER SEEPAGE IN MASONRY/CIVIL CONSTRUCTION:

Clean the existing surface thoroughly and dry it as best as possible. Apply -2060 Uni-Bond undiluted all around the wet/damp surface. Apply the slurry/mortar prepared by using one part Uni-Bond dispersed in one part of water mixed in the sufficient cement-fine sand (1:2) mixture to get high viscosity slurry and apply immediately. Let it be dried for 2-3 hour and repeat the same action. Hot air blower may be used for quick sealing. The surface will be sealed/plugged from seepage and minor leakage. The process may be repeated for more critical areas. After 8-12 hours cure the treated surface with Uni-Bond 3 parts mixed to 1 part of water (3:1).

5. NON-SHRINK GROUTING, PAVEMENTS, CORRIDORS, MACHINERY INSTALLATION FOUNDATION PREPARATIONS ETC:

Use 2.5 – 4.0 Kgs. per 50 Kgs. bag of cement to be mixed in the predetermined quantity of water for Mortar/Concrete mixtures. When the concrete is set to touch, start hydration as suggested under Point No.6 “HYDRATION”.


This product is used in the Concrete/Mosaic/Terrazo Flooring and also for factory/warehouse cementitious floors @ 1.5 Kg./bag of cement and minimum 2 Top Coats afterwards with -2061 Special Binder (Coating Sealer) or -2052 Clear Floor Sealer. After drying the flooring behaves as Impermeable to mineral oils, Aliphatic hydrocarbons, Acids/Alkali resistant smooth textured, water proof, abrasion resistant and non corroding, preferred in Industrial & Factory Floors.

6. HYDRATION:

For Uni-Bond mixed cement compositions, hydration to be conducted as under:-

- 1st and initial hydration to be done thoroughly after 8 hours or when the surface is set to touch (green effect is achieved) with 1 part Uni-Bond thoroughly mixed to 2½ parts of water;
- thereafter regular hydration to be carried out with plain potable water for up to 7 days.

IMPORTANT:

1. **UNDER NO CIRCUMSTANCES -2060 UNI-BOND MUST NOT BE MIXED DIRECTLY TO THE CEMENT.**
2. **USE ONLY POTABLE WATER FOR MIXING.**

