

APPLICATION INSTRUCTIONS & HEALTH AND SAFETY INFORMATION



K MIX

K MIX GP MORTAR

K MIX GP MORTAR - BUILDING

K Mix GP Mortar is designed for building bricks and blocks at a nominal joint thickness of 15 - 18mm. All bricks and blocks should be bedded and pointed in one operation to maximise mortar durability. Once the initial set has started mortars should not be remixed with water. The coverage is 1.8kg / mm thick / sq m, 565 blocks per tonne (laid on edge) or 318 blocks (laid on flat). Allow approx 14 - 18kg block laying / sq m for block laying (15 - 18mm joint thickness). For brick laying: brick size 215 x 102 x 65, approx 1700 bricks per tonne. Brick size 215 x 102 x 73, approx 1500 bricks per tonne.

K MIX GP MORTAR - PLASTERING

K Mix GP Mortar is designed for hand or spray application. It is used for rendering and plastering at a nominal 8 - 10mm thickness. Primary coat, where required, should be applied to substrates as preparation for subsequent coats. Thickness should be as per product specification. If it is to be over coated it is important to take special care to straighten with a darby / straight edge to ensure that the next coat is applied to uniform level. Form a light key only. Allow 24 hours curing time before further application, unless advised otherwise. The coverage is 1.8kg / mm thick / sq m. Available in 25kg sacks.

K MIX GP MORTAR - BEDDING

K Mix GP Mortar is designed to be used to bed pavia. The product should be mixed to a good paste and laid onto the surface to be paved to a thickness of 20 - 30mm. Create a "notched trowel" effect on the surface and the pavia are then bedded into the wet paste and allowed to set. The coverage is 1.8kg / mm thick / sq m. (20 - 25mm joint thickness). The paving can then be grouted using K Mix Rapid Set Paving Grout. Available in 25kg sacks.

K MIX GP MORTAR COLOURED

K Mix GP Mortar Coloured is designed for building bricks and blocks at a nominal joint thickness of 15 - 18mm. All bricks and blocks should be bedded and pointed in one operation to maximise mortar durability. Once the initial set has started mortars should not be remixed with water. The coverage is 1.8kg / mm thick / sq m. Allow approx 14 - 18kg / sq m for block laying (15 - 18mm joint thickness), brick size 215 x 102 x 65 approx 1700 bricks per tonne. Brick size: 215 x 102 x 73, approx 1500 bricks per tonne. Blocks laid on edge: approx 565 blocks per tonne. Blocks laid on flat approx 318 blocks per tonne. Available in 25kg sacks.

K MIX THIN BED MORTAR

K Mix Thin Bed Mortar is designed for aircrete block and other fast building systems at a nominal joint thickness of 2mm. All blocks should be bedded and pointed in one operation to maximise mortar durability. Once the initial set has started mortars should not be remixed with water. The coverage is 1.45kg / mm thick / sq m. Available in 25kg sacks.

K MIX RAPID SET PAVING GROUT

K Mix Rapid Set Paving Grout is used to point pavia.

1. Pointing Method: Ensure that the joints are clean. Mix the material to a stiff paste and pack into the joint using a pointing trowel. Strike off using the edge of the pointing trowel and clean up as necessary.

K MIX RAPID SET PAVING GROUT IS A RAPID SET PRODUCT - ONLY MIX AS MUCH AS CAN BE USED BEFORE THE PRODUCT SETS.

The coverage is approx. 1.45kg / mm thick / sq m or typically a 25kg bag will give 70 linear metres of joint 10mm wide and 20mm deep.

K POST

K Post is available in 20kg sacks and is ready to use to fix wood, metal and concrete posts. No mixing is required. Application is in 3 easy steps.

1. Dig a hole to the desired size, fill halfway with water and position the post in the hole.
2. Pour K POST evenly around the post, filling the hole. K POST will set in 5 to 10 minutes.
3. Tap the setting surface to remove any air bubbles and cover with soil.

Cleaning

All equipment should be cleaned with water immediately after use. Residue must not enter drainage systems.

K DASH

K Dash Traditional Fine Mortar provides a cost-effective solution for dry dashing. It is a butter coat for dry dash applications and can be hand or spray applied. Suitable for use as a dash receiver applied onto an appropriate basecoat. Apply 6 - 8mm thick, depending on the size of the dashing aggregate. Coverage: 1.8kg per mm thick per sq m. Required: 10-18kg per sq m approx.

Application

Apply a butter coat of render to a uniform thickness, depending on the aggregate size. While the render is still plastic, throw washed aggregate onto the surface to give a uniform dense coverage. Immediately tamp the aggregate particles lightly into the butter coat with a wood float and ensure a good bond is obtained.

OTHER INFORMATION

Kilwaughter Chemical Company Ltd are an ISO 9001 & ISO 14001 registered company. The BS EN 13914-1 Design, preparation and application & of external renderings and internal plastering must be followed at all times. A technical advisory service is available on request.

APPLICATION INSTRUCTIONS

IF THESE INSTRUCTIONS ARE NOT FOLLOWED CLOSELY, A SATISFACTORY FINISH MAY NOT BE ACHIEVED AND KILWAUGHTER CHEMICAL CO LTD WILL ACCEPT NO RESPONSIBILITY.

STORAGE

Product sacks, even when protected by hoods, are only shower proof, and should be further protected to prevent damp causing caking of the product. Shelf life is approximately one year if stored in dry conditions in original packaging. It is important to note that all K Mix, K Dash & K Post products are non-returnable.

PLASTERING TEST PANEL

It is recommended that a test panel (ideally 2m²) be produced for inspection by the customer (client, architect, etc.). Work should not commence until the customer is satisfied with the texture and general appearance of the product. The test panel should be prepared well in advance of work commencing. Applicators should be familiar with product water requirement, handling characteristics, setting and hardening times. These may vary according to background, temperature and humidity.

APPLICATION CONSIDERATIONS

Before any rendering or plastering begins, it is essential to ensure that the scaffolding provides suitable access to the whole of the working face.

Note that it may be necessary to damp down walls prior to applying the product to control suction.

K Mix, K Dash & K Post products have a working temperature range of 5°C to 35°C. During hot weather it is recommended that work is started on the shady side of the building and continued round following the sun. In cold weather, if frost is forecast, work should stop in time to allow the material to set sufficiently to prevent frost damage.

Drying conditions will vary accordingly to wind, temperature and humidity. Protection from rain and frost should be provided for the first 48 hours after application.

MIXING

For all K Mix & K Dash products use approx. 4-5 litres of clean water per 25kg sack.

Consistency in mix proportions is essential to ensure an even finish. Mix thoroughly, it takes at least 10 minutes to dissolve the powder additives;

COLOUR

K Mix materials are manufactured from natural products, and slight shade variations may occur.

LIMEBLOOM

Limebloom is a natural phenomenon which can occur in all cementitious systems. It is caused by the migration of soluble salts from the body of the render to the surface. This process takes place when surface water is present. As such, limebloom is a temporary phenomenon, and does not affect the durability or strength of the product. K Mix is the most susceptible to lime bloom in the early stages of setting, before the additives have had an opportunity to take effect. Therefore our render needs to be properly protected from the weather and any other sources of water during this period. Applying the material in cold, damp weather extends the period when render is susceptible to limebloom. Do not permit down-pipes, sills, copings and scaffold boards to throw water on the setting render. Do not allow washings from quoins, sills etc. to run on to the setting render.

MAINTENANCE

Where general staining occurs, a warm power wash with a suitable detergent can be used to clean up the K Mix finish. Care must be taken to adjust the pressure of the power washer to ensure that the render surface is not damaged during the procedure. An annual coat of fungicidal wash can prevent algae from growing on weather prevailing facades, which can be prone to algae by remaining wet over long periods.

MATERIAL SAFETY DATA SHEET COSHH (Control of Substances Hazardous to Health)

1. IDENTIFICATION OF SUBSTANCE / MANUFACTURER

Kilwaughter Chemical Co Ltd, 9 Starbog Rd, Larne, N.I. BT40 2TJ.

2. COMPOSITION / INFORMATION ON INGREDIENTS

A blend of sand, lime and admixtures. The main hazardous ingredients are Calcium Hydroxide, Calcium Silicates and Alkalis. When mixed with water, the resulting wet mortar is abrasive and alkaline.

3. HAZARDOUS IDENTIFICATION

Contains cementitious binders: harmful if swallowed or inhaled, may cause burns to skin and eyes on contact with bodily fluids, causes irritation to respiratory tract.

4. FIRST AID MEASURES

EYE CONTACT: Wash eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice without delay.

SKIN CONTACT: Wash the affected area thoroughly with soap and water. If irritation persists, seek medical advice without delay.

INHALATION: If irritation occurs, remove patient to fresh air. Get medical assistance.

5. FIRE FIGHTING MEASURES Presents no fire hazard.

6. ACCIDENTAL RELEASE MEASURES. PERSONAL PROTECTION See below.

METHOD FOR CLEARING UP

If material is in powder state, sweep up avoiding the generation of dust. If material is a paste, scrape up. Avoid contamination of watercourses and drains.

7. STORAGE AND HANDLING

Keep in a dry, safe place. Avoid generation of dust. When opening and mixing, avoid the formation of dust. Wear protective clothing as outlined.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARD

OES 8 Hr TWA (Time Weighted Average) 10mg per cubic metre inhalable dust; 5mg per cubic metre respirable dust.

ENGINEERING MEASURES

Where reasonably practicable, control dust exposure by engineering means.

PERSONAL PROTECTIVE EQUIPMENT

Wear suitable protective clothing to avoid contact with skin. Suitable respiratory equipment and suitable eye protection should be worn when handling the products. Protective goggles should be worn when spraying & scraping.

OTHER INFORMATION

The information contained herein is based on our current experience and knowledge, and does not act as a guarantee. A full Material Safety Data Sheet is available. This information is based on current data correct at the time of publication. It is given as guidance in assessing safe handling, storage and use. Recipients of the product must take responsibility for use and disposal of product observing existing laws and regulations. K Mix contains naturally occurring products and as such, minor batch-to-batch variations are inevitable.

9. PHYSICAL / CHEMICAL PROPERTIES

Physical State:	Power blend
Particle Size:	Typically 5 micron to 8mm
Odour:	Odourless
PH:	12-14 when wet
Flash Point:	N/A (Not flammable)
Explosives Properties:	N/A (not explosive)
Density:	1,200 - 1,800kg/m ³
Solubility:	Partially soluble in water

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use and storage.
Decomposition:	When heated in excess of 580°C calcium oxide fumes and carbon dioxide are liberated.

11. TOXICOLOGICAL INFORMATION (SHORT TERM EFFECTS)

EYE CONTACT

Hydraulic lime is a severe eye irritant, and mild exposures can lead to soreness. Untreated exposure & larger exposure can lead to chemical burning & ulceration

SKIN CONTACT

Hydraulic lime and wet paste can cause irritation, contact dermatitis, allergic dermatitis and / or cause burns.

12. ECOLOGICAL INFORMATION

AQUATIC TOXITY: May be toxic to aquatic life due to pH change.

13. DISPOSAL CONSIDERATIONS

Dispose of waste material and empty sacks at a site authorised to accept builders waste or according to local regulations.

14. TRANSPORT INFORMATION: Not hazardous for air, sea or road freight.

15. REGULATORY INFORMATION

CLASSIFICATION Harmful

Risk Phrases

Inhalation: Harmful by inhalation	Ingestion: Harmful if swallowed
Skin contact	Harmful in contact with skin. Causes burns.
Eye contact	Risk of serious damage to eyes
Chronic Exposure	May cause sensitisation by skin contact

Safety Phrases

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breath dust. Avoid contact with skin. After contact with skin, wash immediately with plenty of soap and water. Wear eye face protection. In case of insufficient ventilation wear suitable respiratory equipment. Keep out of reach of children. Wear suitable protective clothing.



ESSEN 999-1 &
ESSEN 999-2
Licence No. 514639



Cert No. FM85394



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