

KPRO – Winter & Summer Working

Background

Kilsaran KPRO *Masonry* and *Façade* mortars are designed mortars, manufactured in accordance with I.S. EN 998-2:2016 and I.S. EN 998-1:2016 respectively. When using these materials in adverse weather conditions and temperatures there are a number of matters to note.

Masonry Mortars

As per their design and use masonry mortars require the addition of water to create a homogenous mix for both brick and block laying. Generally, when masonry construction is carried out during freezing weather, proper facilities should be made available for mixing out the mortar and protecting the fresh masonry work against frost damage, since water in the mortar mix and masonry units may cause considerable damage to the masonry if it is allowed to freeze.

Because of the possible damage that may occur to newly constructed masonry in cold weather, **no masonry** units should be laid when the temperature is at or **below 3°C**. In addition, precautions may be required where the temperature is above 3 °C when the mortar is laid but where the subsequent temperature may fall below freezing before the mortar has hardened, e.g. overnight.

Antifreeze admixtures, particularly calcium chloride, **should not be used**. It is essential to protect the masonry from coming into contact with strong salt solutions, e.g. those used for clearance of snow and ice.

Depending on their characteristics, masonry units may be highly porous and, particularly in warm weather, rapidly absorb the moisture from the mortar when laid. Notwithstanding the fact that KPRO masonry mortars are designed to adequately retain mixing water, experience has shown that adhesion will be adversely affected when masonry is allowed to dry out rapidly in warm, dry conditions. In such conditions, laying mortar beds in shorter lengths, thus limiting water loss from the mortar before the next course is laid is advantageous.

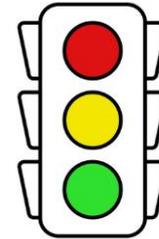
Wetting may assist in removing dust from the bricks and thus further improve adhesion. However, the bricks should not be over wetted, as this may lead to 'floating' on the mortar bed and also to excessive efflorescence and staining of the brick face. Concrete masonry units should not be wetted.

Façade Rendering Mortars

When working with rendering mortars in adverse weather conditions the temperature and condition of the background need to be assessed. The background should be reasonably dry, free from frost, with a temperature of greater than **+5°C** at the time of rendering.

Work should only be carried out when the background surface and air close to the wall are at a temperature of **+5°C** or above. Work should be suspended during inclement weather or periods of frost. If the temperatures are due to fall below **+5°C** before the rendering mortar hardens (e.g. overnight) then work may need to be suspended earlier. Antifreeze admixtures, particularly calcium chloride, should not be used.

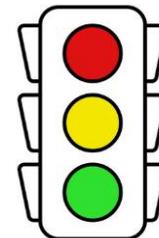
Newly rendered surfaces must be protected from excessive drying caused by strong sunlight or prevailing winds. In sunny weather work shall commence in the shade and follow the sun around the building during the course of the day.



≤ 3°C or ≥ 30°C

≤ 3°C overnight

≥ 3°C or ≤ 30°C



≤ 5°C or ≥ 30°C

≤ 5°C overnight

≥ 5°C or ≤ 30°C

Get in touch



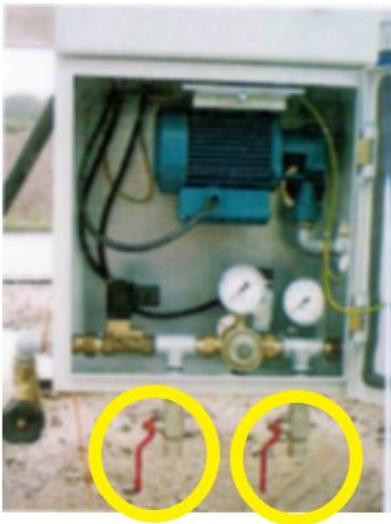
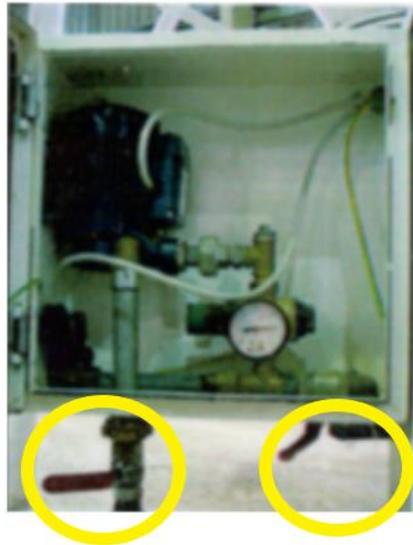
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Silo Mixing Equipment

Kilsaran silo mixers use a supply of clean water to mix with our dry mortar products. Freezing water expands and therefore may seriously damage the mixer control panel and associated water fittings. In cases where low temperatures are expected, or when left unused for a long period of time, all water must be drained from the system to ensure continued functioning and operation of the silo. Please follow the following steps to drain the water from the silo mixing section.

1. Turn of the water supply to the silo
2. Uncouple the water supply pipe from the panel
3. Open the drain valves located at the bottom of the panels and allow water to drain fully from the panel.
4. Uncouple the water pipe from the silo mixer tube.

M-TEC D-50**WAM WETMIX****DRAIN VALVES****Get in touch****ROI** T: +353 (0)1 802 6300 E: technicaladmin@kilsaran.ie kilsaran.ie**UK** T: +44 (0)161 872 8899 E: info@kilsaraninternational.co.uk kilsaraninternational.co.uk