

MasterPel[®] 739

A low dosage hydrophobic pore-blocking water resistant concrete / mortar

DESCRIPTION

MasterPel 739 is a hydrophobic pore-blocking ingredient (H.P.I) which imparts water resisting properties for concrete / mortar. It reduces water absorption and water permeability of concrete significantly and enhances durability of concrete.

MasterPel 739 is a chloride free organic admixture and supplied as a brown liquid. It reacts with the cement hydration products to form a hydrophobic ingredient to reduce the capillary suction and prevent the ingress of water / potentially deleterious soluble material.

FIELD OF APPLICATION

MasterPel 739 is suitable for any concrete structure, which requires watertightness, such as:

- Basement walls / floors, Underground car parks
- Tunnels / underpass / airport or station buildings
- Foundations, piles and pile caps
- Water retaining structures, swimming pool, water tanks, reservoirs, water towers
- Land drainage, manholes
- Reinforced concrete in marine environment subject to tidal and wet/dry cycling
- Waste water treatment and desalination plant

FEATURES AND BENEFITS

- **Very low absorption** – Increased durability and water tightness
- **Very low water permeability** – Favourable values indicate imperviousness
- **Integral system** – Protection is maintained throughout the concrete matrix
- **Ammonia free** – Environment friendly. Fully compatible with certain surface coating and finishes.

APPLICATION

Dispensing

MasterPel 739 should be added separately to the initial batching water to ensure complete distribution throughout the mix. Do not use seawater, bore water or water containing a high dissolved mineral of content, for mixing concrete.

Curing

Like all cementitious product, concrete made with

MasterPel 739 must be protected against rapid drying due to high temperature and/or strong wind.

The use of wet burlap, plastic sheets or a curing compound is highly recommended.

DOSAGE

The optimum dosage for **MasterPel 739** to meet a specific requirement should always be determined by trial mixes. It is compatible with all types of cements – normal and blended – as well as addition of supplementary cementitious materials (SCMs). It is also compatible with all Master Builders Solutions concrete admixtures.

Recommended dosage rate is 1.5 to 2.5 litres per m³ of concrete, depending on specification requirements.

Consult local Master Builders Solutions Construction Chemicals field representative for assistance in admixture selection and determining dosage and support on mix design.

PACKAGING

MasterPel 739 is supplied in 190kg/200lt drums.

SHELF LIFE

MasterPel 739 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original packaging. If found to be frozen, thaw it at 20°C and reconstitute by stirring.

PRECAUTIONS

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.