

FROST PROTECTION IN CONCRETE MIX INFORMATION



Cold Weather Mixes

With regard to the extreme weather conditions that can be encountered over the winter period, we would remind our customers of the following British Standards (BS 8500) recommendations in respect of concrete mixes for paving of yards and lanes.

Recommended cold weather mixes are:

- PAV1 (C35N air-entrained concrete for yards and lanes)
- PAV2 (C40N air-entrained concrete for yards and lanes)
- Minimum 50N concrete

PAV1 and PAV2 air-entrained concrete mixes are recommended only where a tamped finish is used. They are not suitable for power-floated or brushed finishes. If a power-floated or brushed finish is to be adopted, then minimum 50N concrete is recommended.

Products	Product Application	End-User
Pav 1 (C35N AE)	Lanes/yards with tamped finish	Agricultural/Domestic/Commercial
Pav 2 (C40N AE)	Lanes/yards with tamped finish	Agricultural/Domestic/Commercial
50N	Lanes/yards with Brushed or Powerfloated finish	Agricultural/Domestic/Commercial

Additional Protective Measures

There are additional protective measures which can be taken to help minimise the effect of frost on concrete. These include:

- Fibremesh- this can be added to the mix at customers request.
- Curing- Good curing when concrete is poured is essential to ensure concrete performs to its potential. Please contact a member of the FP McCann sales team for more information.

FP McCann recommend that during spells of cold weather de-icing salts are not used on concrete as this will cause damage to the concrete due to the freeze-thaw cycle.

