

# MET – Expan AD

## EXPANDING GROUT ADMIXTURE

**MET – Expan AD** is a plasticized admixture for a cementitious grout. **MET – Expan AD** will help in compensating shrinkage via gas producing expansion.

**MET – Expan AD** are suitable for post tensioning duct grouting, bed grouting, ground anchors, steel column, infilling and jointing

### Properties

Expansion Properties (ASTM C940)	0.5 – 4%
Expansion Time	15 – 120 minutes
Colour	Brownish Powder

### Application Instructions

#### Dosage

OPC (50kg)	Water (litre)	MET – Expan (gram)
50	20.0 – 22.0	227

#### Remarks;

It is advisable that the trial mix shall be carried out for a particular brand of cement.

#### Mixing

For small batch mixing process (upto 50kg OPC), mechanical grout mixer or slow speed drill fitted with a high shear paddle should be used. High shear vane mixer is required for large quantities mixing.

Mixing machine capacity and labour availability should be properly managed to ensure the grouting operation process is smooth.

The mixing sequence:

- Add cement into measured water slowly
- Mix it for 1 – 2 minutes
- Pour **Met – EXPAN AD** and mix
- Mix until homogenous and consistent

### Application

Prior application of **MET - Expan AD**, ensure areas to be grouted shall be clean, sound and free from all contaminants.

Place the properly mixed grout within 15 – 20 minutes working time to gain the full benefit of the expansion process.

### Curing

On completion of grouting operation, exposed areas should be thoroughly cured with curing membrane such as **METC - Cure** product range.

### Supply

**MET – Expan AD** is supplied in 20kg pail

### Storage

**MET – Expan AD** has a shelf life of 6 months if kept in a dry store in sealed pails. If stored in high temperature and high humidity locations, the shelf life may be reduced.

### Technical Support

Mettec Systeme offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end – users and contractors, as well as on – site technical assistance.

### Health And Safety

In case contact with eyes, it should be washed with clean water.

Avoid inhalation of dust during mixing.

Wear gloves, goggles and dust mask.

## METTEC SYSTEME SDN BHD

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