

# POLYHEED<sup>®</sup> SG 30

## A water reducing liquid admixture for Total Consistency Control of wet shotcrete mixes and grouts

### Description

POLYHEED<sup>®</sup> SG 30, the thixotropic component of the MEYCO<sup>®</sup> Total Consistency Control System, is a chloride-free water reducer. POLYHEED<sup>®</sup> SG 30 is formulated to enhance the performance of shotcrete and grouts when used in combination with other MEYCO<sup>®</sup> TCC products.

POLYHEED<sup>®</sup> SG 30 complies with the performance requirements of the EFNARC sprayed concrete standard.

### Primary uses

POLYHEED<sup>®</sup> SG 30 is recommended for use in all shotcrete and grouts where total consistency control properties are desired.

#### Shotcrete

- Tunnels
- Mining
- Repair
- Slope protection
- Irrigation ditches
- Dams

#### Grout

- Soil stabilisation
- Backfill
- Compaction
- Dams

### Advantages

- Increased compressive and flexural strengths.
- Long open time and extremely good slump retention.

- Improved cohesion, allowing for reduced accelerator dosage.
- Reduced rebound
- Improved pumpability
- Immediate change in rheology when combined with other MEYCO<sup>®</sup> Total Consistency Control components (nozzle for wet shotcrete, static mixer for grout).

### Packaging

POLYHEED<sup>®</sup> SG 30 is supplied in 210 litre drums.

### Typical properties

Properties listed are only for guidance and are not a guarantee of performance

Colour	Dark brown free flowing liquid
Specific gravity	1.120-1.140 at 25°C
Chloride content	Nil to BS 5075 : 1982

### Standards

EFNARC 1996 (European Federation of Producers and Applicators of Specialist Products for Structures) -European Specification for Sprayed Concrete  
ASTM C494-92 Type D

### Dosage

The dosage range of POLYHEED<sup>®</sup> SG 30 when used singularly for water reduction and improved pumpability is 0.4 - 1.0 litre per 100kg of total cementitious material.

However, when used as a MEYCO<sup>®</sup> TCC component, the minimum dosage is 1.2 litre per 100kg of total cementitious material (min 6 litre / m<sup>3</sup> mix).



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BASF does not recommend the use of dosage rates outside of the recommended range without trial testing and consulting your local BASF sales representative for assistance in determining the dosage rate for optimum performance

## Temperature precaution

If POLYHEED<sup>®</sup> SG 30 freezes, thaw at 2°C or above and completely reconstitute by mild mechanical agitation.

## Handling precautions

**Do not use pressurised air for agitation.** If necessary, material should be stirred very carefully.

For additional information on POLYHEED<sup>®</sup> SG 30 admixture or on its use in developing a shotcrete or grout mix with Total Consistency Control benefits, contact your local BASF representative.

## Storage

Store under cover, out of direct sunlight and protect from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF's Technical Services Department.

## Shelf life

Shelf life is 12 months in unopened original packing and when stored as stated above.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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