

# PUDLO SELF COMPACTING



A Division of David Ball Group plc

## INTRODUCTION

**PUDLO Self-Compacting Admixture (PUDLO SC)** is an extended Admixture specifically designed and manufactured to produce exceptionally flowing concretes, without segregation in Self-compacting Concrete. Combining all the benefits of ultra-low permeability and fine surface finish already achieved using **PUDLO CWP** for over 100 years, **PUDLO SC** will give consistent high workability and ease of use when placing Self-compacting Concrete.

## DESCRIPTION

**PUDLO SC** is a careful blend of well-established and proven Admixtures manufactured by David Ball Group plc. Delivered in pre-weighed, water-soluble bags **PUDLO SC** is a free-flowing powder, easy to store, handle and dose.

## BENEFITS

- Accurate control of w/c ratio
- Consistent, repeatable mixes
- Faster delivery and installation
- Improved surface finish
- Greatly reduced permeability
- Lower noise levels
- No aggregate segregation
- No bleeding
- Self-levelling
- Increased strengths
- Reduced rate of carbonation
- Contains no Chlorides or Sodium Oxide
- Provides "lubrication" in pump operations
- Greatly improves productivity

## USES

- For Readymix suppliers
- Pre-cast production
- Intricate surface detail
- Columns, walls, floors
- Complicated formwork
- To produce corrosion resistant concrete
- High exposure class situations
- Underground car parks, basements, vaults, reservoirs etc.
- Watertight concrete in conjunction with **hDR Waterstop**
- High strength concretes
- Waterproof concrete resistant to hydrostatic pressure

## DESIGN

Careful mix design in conjunction with the concrete producer ensures consistency of the supply of Self-compacting, high flow concrete when using **PUDLO SC**. David Ball Group plc will assist in developing a mix design incorporating locally available materials to produce the most cost-effective, final concrete product.

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## DOSAGE

**PUDLO SC** is added at the rate of 3% of the Cement (or total binder) content. Typically one 15kg bag is added per m<sup>3</sup> of concrete.

## METHOD STATEMENT

Use one pre-weighed bag of **PUDLO SC** per cubic metre of concrete produced.

It is recommended that a “wet” mix be maintained throughout the mixing operation. **PUDLO SC** should be placed into the mixer/drum with initial water, prior to the remaining ingredients being added to complete the loading of all mix items.

Mix for a minimum of 9 minutes.

Do not exceed a w/c ratio of 0.40 that includes taking into account the moisture content of all aggregates. On arrival at site, flow properties should be checked prior to placing. Care should be taken not to allow material to “fall” more than 2m. The pump hose should be placed so as to push the material into and along the formwork.

## DESIGN PARAMETERS

- Target flow of 700mm (500mm being reached within 5 seconds).
- Target flow of 600mm after 1 hour.
- Maximum water/binder ratio 0.40.
- Easy flow through “J” ring without centre build up of coarse aggregate.
- No bleed at maximum w/c ratio/maximum flow.
- No segregation.

## PACKAGING & STORAGE

**PUDLO SC**, is manufactured under a BS EN ISO 9001 Quality Scheme, packed in bags, tested prior to despatch and delivered on shrink-wrapped pallets to the concrete producer. **PUDLO SC**, can be stored, under cover, indefinitely.

## HEALTH & SAFETY

**PUDLO SC** is a blend of inert, non-toxic, fine powdered fillers and workability agents. The product is not alkaline and contains no cement, chlorides or known harmful ingredients. **PUDLO SC** is however, a fine powder and great care should be taken to avoid ingestion or eye contact. For further information see Health & Safety Datasheet.