

PRODUCT DATA SHEET

KING PC-S10 25

Pre-packaged, 25 MPa (3,625 psi) concrete mix for general construction

PRODUCT DESCRIPTION

KING PC-S10 25 is a pre-packaged, 3625 psi (25 MPa) concrete mix for general construction. It is a pre-blended, pre-packaged, 3625 psi (25 MPa) concrete mix containing Portland cement, fine and coarse aggregate and other carefully selected components.

USES

- Construction of concrete jersey barriers, curbs, gutters, foundation walls, exposed slabs and other concrete structures

CHARACTERISTICS / ADVANTAGES

- Requires only the addition of water
- Air-entrainment provides superior resistance to freeze-thaw cycling and salt-scaling in the presence of de-icing salts
- Designed with natural normal-density non-reactive fine and coarse aggregates to eliminate potential alkali aggregate reactivity (AAR)

PRODUCT INFORMATION

Packaging	KING PC-S10 25 is normally packaged in 66 lb (30 kg) or 2205 lb (1000 kg) bulk bags and polywrapped on wooden pallets. All KING products can be custom packaged to suit specific job requirements.	
Shelf Life	Unopened bags have a shelf life of 12 months.	
Storage Conditions	Material should be stored in a dry, covered area, protected from the elements	
Density	MASS DENSITY 144 lb/ft ³ (2300 kg/m ³)	ASTM C 39

TECHNICAL INFORMATION

Compressive Strength	7 days	2900 psi (20 MPa)	ASTM C 39
	28 days	3625 psi (25 MPa)	
Porosity	AIR CONTENT 5.0% - 8.0%	ASTM C 231	

APPLICATION INFORMATION

Coverage	<ul style="list-style-type: none">▪ 66 lb (30 kg) bag contains approximately 0.5 ft³ (0.014 m³)▪ 2205 lb (1000 kg) bag contains approximately 15.5 ft³ (0.44 m³)
Flowability	SLUMP ASTM C 143 4" (100 mm) ± 2" (50 mm)
Cure Time	Curing is essential to optimize physical properties of the concrete and minimize plastic shrinkage. Cure immediately after material has reached initial set in accordance with ACI 308 "Guide to Curing Concrete". Continuously moist cure for a minimum period of 7 days. Curing is particularly critical in rapid moisture loss conditions such as high temperatures, high winds and low humidity

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

MIXING

For a 66 lb (30 kg) bag place 75% of required water into mixer and slowly introduce entire bag of KING PC-S10 25. Add balance of required water slowly while mixer is running, not exceeding maximum recommended volume of water. Maximum recommended volume of water is 0.63 US gallon (2.40 L) per 66 lb (30 kg) bag. Continue mixing for a minimum of 3 minutes and stop only when material has obtained a consistent homogeneous mix. For a 2205 lb (1000 kg) bag, the recommended volume of water is 18.5 US gallons (70 L) to 21.1 US gallons (80 L). Mixing procedures of when 2205 lb (1000 kg) bulk bags are used in ready-mix trucks can be forwarded upon request.

APPLICATION

Mix and substrate temperatures should be maintained between 40 °F (5 °C) and 86 °F (30 °C), until the material has reached final set. Do not place KING PC-S10 25 when ambient temperature is below 40 °F (5 °C). Refer to ACI 306, "Guide to Cold Weather Concreting". In warm weather, ice water may be used to cool mix temperature and avoid short working time. When ambient temperature is above 86 °F (30 °C), refer to ACI 305, "Guide to Hot Weather Concreting". Place material uniformly and consolidate by vibrating. Ensure material has completely encapsulated any rebar or welded wire mesh. Refer to ACI 304 R "Guide for Measuring, Mixing, Transporting and Placing Concrete". Any formwork should be rigid and tight to prevent loss of material. For forming applications, refer to ACI 347, "Recommended Practice for Concrete Formwork".

CLEANING OF TOOLS

Clean all tools and equipment after use with water. Once hardened, the product can only be removed mechanically.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Product Data Sheet

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