

CONCRETECH

Lightweight Concrete
LW 123

PRODUCT DESCRIPTION

Lightweight Concrete – LW 123 is a new kind of concrete with good strength and durability. The product is 50% the weight of normal concrete products. This reduced mass makes the material ideal for a variety of applications. The advantage of Lightweight Concrete – LW 123 is its reduced mass while maintaining sufficient strength.

USES

Lightweight Concrete – LW 123 can be used in non-structural concrete blocks and panels for outer leaves of buildings, for architectural ornamentation and in pre-cast and cast in place ornamental concrete applications. Ideal for use in concrete partition walls, concrete roof slabs and floor screeds, LW 123 can also be used for concrete countertop work and can be stained, dyed and polished. A high quality finish results when used in precast and cast in place applications.

PACKAGING

Lightweight Concrete – LW 123 is available in 27 lb (12.2 kg) bags, yielding 0.42 cubic feet per bag.

LIMITATIONS

Do not use over poor quality substrate. Do not use when temperature is less than 38°F (3°C), when temperature is expected to fall below 36°F (2°C) or when inclement weather is expected during the first 24 hours after placement. Do not cure with plastic sheets, water or curing agents that may discolor the surface. Do not leave wood or other products on the surface while curing, as this will cause discoloration. Lightweight Concrete – LW 123 is designed as a reduced mass concrete material for architectural installations and should not be used in structural applications. Contact Concretech Technical Services for additional information or design considerations 1-877-952-0157

INSTALLATION INSTRUCTIONS

All substrates to receive Lightweight Concrete – LW 123 shall be clean, free of oil, grease, dirt, efflorescence, drywall residue, excess moisture and foreign matter. Clean with commercial degreaser and rinse with plain water. Substrates should be sound, dimensionally stable and free from hydrostatic pressure. If the substrate is a cement based concrete material, it should be fully cured for 28 days prior to applying Lightweight Concrete – LW 123 as a overlayment. Fill any holes or cracks in the substrate with appropriate patching and crack filling materials.

Always install test areas to ensure compatibility of Lightweight Concrete – LW 123 with the substrate and to verify bond strength and performance. Depending on the mold, a concrete release agent may or may not be necessary. Contact Concretech Technical Services to discuss appropriate release agents for intended applications.

Mix one bag 27 lb/12.3 kg of Lightweight Concrete – LW 123 with 3.4 US qts/3.2 L in a clean container with a high speed drill and mixing paddle at 700 rpm for 1-2 minutes. LW 123 should be mixed to a homogenous, lump-free and consistent mud. DO NOT OVERMIX. Care should be taken to avoid entraining air. Excessive upwards and downwards motion with the mixing drill may cause air entrainment. Air entrainment may reduce working time and cause pin-holing during application and curing. Evenly apply the mixed material to the substrate or forming medium. Working time is 10 minutes. LW 123 will harden in approximately five hours at 73°F (23°C). LW 123 may receive sealers and color applications that are not sensitive to hydrating moisture after ten hours.

Avoid traffic for 10 -12 hours. Full cure is obtained in ten days at 73°F (23°C).

STORAGE

Maintain storage temperature at 10 – 30°C (50-86°F). Expected shelf life if stored at recommended temperature is one year. Keep from freezing. Store in a cool and dry place. Store in a well ventilated area. Avoid all skin contact. Avoid contact with eyes.

PROPERTIES

Mixing Ratio:	3.4 qts. / 3.2 litres of water per bag
Dry Density:	70 lbs / cu ft (1.12 kg/litre)
PH:	11
Working Time:	10 Minutes
Open to foot traffic:	5-7 hours
Compressive Strength: (ASTM C109):	2850 psi (19.5 MPa)
Volume Change: (ASTM C157):	0.08% after 28 days

TECHNICAL SERVICES

Complete technical information is available from Concretech Inc. and its authorized applicators and distributors. In house laboratory testing is available for specialty applications. Technical services available in North America call toll free 1.888.503.6780

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104, 2567 192 Street
Surrey, BC V3S 3X1

www.concretechproducts.com

Toll Free: 1.888.503.6780
Fax: 1.604.357.1344
Tel: 1.604.210.1147