



weber vinterbetong

- Concrete that can be used for most types of casting work.
- Can be used in temperatures down to -10°C
- 25-300mm
- C32/40

About this product

Winterconcrete is a dry concrete and a variant of Fineconcrete. Used in winter environments down to -10 °C. When winter concrete is thawed after freezing, a strong growth in compressive strength is obtained. Compressive strength C32 / 40.

Area of use

Winterconcrete is used indoors and outdoors for various types of casting work eg. for house floors, plinths, stairs, retaining walls, etc. and when repairing and casting on concrete substrates. Winter concrete is used for most casting work in layer thicknesses from 25mm-300mm. Winter concrete can be used down to -10 °C.

Substrate

See pretreatment section.

Substrate type

- Concrete
- Mineral
- Stone
- Wood
- Block

Pretreatment

When casting against or on old concrete when adhesion is required, the following must be observed:

1. Loose, porous and greasy contaminants as well as crack-filled concrete, surface area and paint are removed with concrete mills.
2. Steel-smoothed and other smooth surfaces are roughened. No later than the day before the casting, the substrate is watered, during the casting, the substrate should be slightly absorbent.
3. Waterjet-hammered concrete and scraped raw concrete surfaces does not need to be sludged. Keep the casting area free of snow and ice.

Mixing

Winterconcrete is mixed mechanically 5 minutes with about 2,0 l water / 20 Kg, whereby about 11 l of concrete mass in consistency class S2 is obtained. Mixing is most conveniently done mechanically. If the product is mixed in a more loose consistency, problems with lower strength and greater shrinkage can be obtained. The water content should be adapted to the type of casting. However, a low water content and adequate vibrating/compression of the concrete always, in quality perspectives, yields the best results.

Product specification

Material consumption	20 kg/m² at 10mm layerthickness.
Recommended layer thickness	25-300mm
Recommended water content	approx 2,0 L / 20 kg
Pot life (Operating time)	approx 60min
Binder	Portlandcement
Aggregate	Natural gravel/sand 0-4mm
Compressive strength class	C32/40
Compressive strength 1 day	>15 MPa according to EN 12390-3 20°
Compressive strength 3 days	>35 MPa according to EN 12390-3 20°
Compressive strength 7 days	>5 MPa according to EN 12390-3 -10° >40 MPa according to EN 12390-3 20°
Compressive strength 28 days	>15 MPa according to EN 12390-3 -10° >45 MPa according to EN 12390-3 20°
Exposure class	X0, XC4, XF3 according to EN 206-1
Frost resistance	Yes, XF3 according to SS 13 72 44 (non salt environment)
Waterproof	Yes, according to SS 137214
Air content	5% according to SS 13 71 II
Water content	10%
Water cement ratio	0,42
Storage conditions	Storage time for bags on a plastic-covered pallet is approx. 12 months from date of packing. Store in a dry place.
Package	20 kg bag

Work instructions

Thin concrete layers are not recommended at low temperatures. Winter casting requires more care when it comes to preparation, preferably use warm water (max + 60 ° C). Strive for a temperature of 20 ° C in the concrete mix. Post-curing with plastic and coverage to prevent rapid dehydration from i.e. wind is important. Watering must not occur if there is a risk of freezing.

Mix the concrete. Fill molds. For larger thicknesses, compression must be performed for each layer of 30cm. Use primarily vibratorrod. Make frequent drops. For horizontal castings, the use of a "vibrating girder" can improve the surface finish. Immediately protect the casting from rapid drying.

After-treatment

Exposed surfaces is cured with water the first days. When watering is finished or when coverage is removed, Weber CMS 8030 Krympspärr is applied for the best results. Thinner concrete layers require more care, especially aftercuring, watering and preventing rapid drying.

Please observe

At a temperature lower than + 5 ° C, the strength growth stops. Also consider castings against cold concrete surfaces. Use warm concrete and protect finished castings against cooling. Castings must not be exposed to frost before the concrete has a strength equal to 5 MPa. Winterconcrete is not pumpable. Weber has special products for pumping.

Safety regulation

Always read the applicable safety data sheets, use personal protective equipment and follow the workplace safety regulations.

Recycling

Please visit your local weber website to find information on waste material and packagings.

Disclaimer

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