

# FLOOR LEVELLER

## C26 UL

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### PRODUCT

TARGET® Floor Leveller C26 UL is a self-levelling, pumpable floor leveller. The product consists of accurately weighed Portland cement, fine aggregate and chemical admixtures.

### COLOR

Grey, similar to concrete

### USES

TARGET Floor Leveller C26 UL is designed for use as a self-levelling, pumpable underlayment or levelling bed for carpet, tile or other flooring systems in situations such as the following:

- over new concrete
- over concrete slabs damaged by rain or frost
- over hollowcore or precast concrete slabs
- over any suitable rigid sub-floor in building renovation or restoration work. Contact TARGET Products Ltd. for advice on suitability of sub-floor types such as plywood, particleboard, tile or asphalt.

TARGET Floor Leveller C26 UL can also be used as a trowellable skim coat over concrete floors. The addition of approximately 250 ml (9 fl oz) of TARGET Primer to the mixing water for each 25 kg (55 lb) bag of TARGET Floor Leveller C26 UL is recommended for skim coating applications.

### PROCEDURES

1. The concrete slab or floor must be free of dirt, dust, laitance, efflorescence, oil, grease or any water-soluble material. In most cases mechanical roughening of the floor by shotblasting, sandblasting, or high pressure water blasting is desirable. DO NOT acid etch. **Proper surface preparation is essential.** Plug all holes in floor.
2. Depressions extending more than 19mm (3/4 inch) deeper than the average surface being leveled should be prefilled to the average surface level 24 hours before priming and placing TARGET Floor Leveller C26 UL. Prefilling can be accomplished with TARGET Traffic Patch, or with TARGET Floor Leveller C26 UL extended with clean 3/8 inch aggregate.
3. The day before, or not less than 2 hours before placing TARGET Floor Leveller C26 UL, the floor surface must be sealed and primed with TARGET Primer. Drying time for the primer will vary with ambient temperature and relative humidity. The primer is mixed with water before

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application to achieve the required penetration of the floor. Mix TARGET Primer with clean water at a ratio of 1 part TARGET Primer to 3 parts water by volume. The diluted primer should be brushed or rolled (Do Not Spray) onto the floor to achieve an even coating thickness. No pools of moist primer should be present where TARGET Floor Leveller C26 UL is applied over TARGET Primer. Allow the primer to become surface-dry before applying TARGET Floor Leveller C26 UL (minimum 2 hours). In cases where the substrate is very absorbent a second coat of primer should be applied after the first coat has dried. Allow the second coat to dry before applying the floor leveller.

4. Mix TARGET Floor Leveller C26 UL into water in a mechanical mixer or mixer/pumping machine. High-speed shear mixers or paddle mixers are suitable - rotating drum mixers are NOT recommended. Always add TARGET C26 UL to water. DO NOT add water to dry TARGET C26 UL. The usual water demand for each 25 kg (55 lb) bag ranges between 4.5 litres (4.76 US quarts) to 4.75 litres (5.02 US quarts). The usual maximum water requirement is 5 litres (5.25 US quarts) of water per 25 kg (55 lb) bag. A higher water content will reduce the strength of the cured compound and introduce shrinkage.
5. Place the mixture either by pouring directly from the mixing container or, on larger projects, by pumping. A suitable pumping rate is 15 to 42 liters/minute (4 to 11 US gal/minute). Pumping distances should not exceed 45m (150 ft). Pumping may be interrupted for up to 10 minutes without emptying the hose. For longer delays the hose must be flushed with water.
6. Place the mix in the approximate location required, using brooms, spiked rollers or screeds if necessary to assist placement. The mix is self-levelling and no final screeding or trowelling is necessary. The compound remains fluid for approximately 30 minutes after mixing. Thicknesses varying from 1 to 20mm (featheredge to 3/4 inch) can be used to achieve a level surface. An average thickness of 4 to 6mm (approximately 1/4 inch) is desirable.
7. Clean all mixing and pumping equipment with water after use.
8. Do not allow traffic on the leveled floor until the TARGET Floor Leveller C26 UL has developed sufficient strength - usually after overnight curing.
9. Where an adhesive is to be used to attach floor covering to TARGET Floor Leveller C26 UL, the underlayment must be allowed to dry until the moisture content is within the limits specified by the adhesive manufacturer. A test patch is advisable. Usually a drying period of 5 to 7

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days is necessary before applying a non-breathable covering over TARGET Floor Leveller C26 UL.

### CAUTION

- TARGET Floor Leveller C26 UL is not intended for use as a structural, load-bearing component or as a wearing surface. It is not intended for use on floors subject to heavy wheel loads such as forklifts.
- A test application of TARGET Floor Leveller C26 UL should be performed when bonding to the substrate is questionable.
- When using an adhesive is to be used to attach floor covering to TARGET Floor Leveller C26 UL, follow the adhesive manufacturer's directions regarding the required moisture content of the substrate – see Procedures, Section 9. Do not use this product as an underlayment for parquetry, cork tiles, PVC or linoleum when the moisture content of the floor exceeds 3% by weight or 80% relative humidity.
- High ambient temperatures will reduce flow time. For high temperature application the use of ice to cool mix water is advisable.

### CURING

Although moist curing of TARGET Floor Leveller C26 UL is not required or desirable, the underlayment should be protected against drafts or other sources of premature drying during installation and for the first 24 hours after installation is completed. A relative humidity of 50% to 70% is ideal for curing. Do not apply any membrane forming compound to the surface of TARGET Floor Leveller C26 UL for at least 5 days.

### TEMPERATURE

Mixture and air temperatures should be 5° to 25° C (41° to 78° F) during the application of TARGET Primer and TARGET Floor Leveller C26 UL. Protect from freezing for at least 72 hours after placing. If space heaters are used to increase air temperatures, care must be taken to avoid damage to the TARGET Floor Leveller C26 UL surface due to carbonation or excessive removal of water from the compound.

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### TYPICAL PROPERTIES OF TARGET FLOOR LEVELLER C26 UL

<b>FLUIDITY</b> , mm Modified ASTM C191 2 minutes after mixing	240 – 270
<b>WATER REQUIREMENT</b> , liters/25 kg bag (US quarts/55 lb bag)	4.8 to 5.2 (5 to 5.5)
<b>FLEXURAL STRENGTH</b> , MPa (lb/sq.in.) ASTM C348 at 2 days at 7 days at 28 days	2.5 (360) 3.0 (435) 6.0 (870)
<b>COMPRESSIVE STRENGTH</b> , MPa (lb/sq.in.) ASTM C349 at 2 days at 7 days at 28 days	10 (1450) 13 (1880) 28 (4060)
<b>DRYING SHRINKAGE</b> , % volume ASTM C596, modified at 28 days, including 21 days drying at 30 ± 2° C (86 ± 4° F)	0.08 typical 0.10 maximum
<b>TENSILE BOND STRENGTH</b> , MPa (lb/sq.in.) CAN/CSA-A23.2-6b at 7 days at 28 days	0.7 (100) 1.0 (150)

### COVERAGE

After preliminary filling of deep irregularities in the sub-floor, the typical quantity of TARGET Floor Leveller C26 UL required for general floor levelling is 10 to 15 kg/m<sup>2</sup> (2 to 3 lb/ft<sup>2</sup>). Approximate quantity estimates can be based on the following yield data for 25 kg (55 lb) bags:

bags/m <sup>3</sup>	64	m <sup>2</sup> /bag	2.4 at 6mm thickness
bags/yd <sup>3</sup>	49		4.8 at 3mm thickness
ft <sup>3</sup> /bag	0.55	ft <sup>2</sup> /bag	25 at 1/4 inch thickness

### SPECIFICATION GUIDE

The floor leveller shall be TARGET Floor Leveller C26 UL or an approved equivalent product containing Portland cement, fine sand and chemical admixtures. The floor leveller shall be self-levelling for a period of not less than 30 minutes after mixing and shall develop a compressive strength of not less than 28 MPa (4060 lb/in<sup>2</sup>) after 28 days. The self-levelling underlayment course shall be applied to a typical thickness of 6 mm (¼ inch), but may be varied in thickness from featheredge to 20 mm (¾ inch) to correct elevation deficiencies.

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