

VETONIT PLAANO SL PLUS

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PRODUCT

TARGET® Vetonit Plaano SL Plus consists of accurately weighed Portland cement, fine aggregate and chemical admixtures. The product is a self-levelling, pumpable floor leveller.

TARGET Vetonit Plaano SL Plus is manufactured under license from Optiroc Oy Ab of Finland by Target Products Ltd., the registered user of the trademark "TARGET Vetonit Plaano SL Plus".

COLOR

Grey, similar to concrete

USES

TARGET Vetonit Plaano SL Plus is designed for use as a self-levelling, pumpable underlayment or levelling bed for tile, carpet or other flooring systems in situations such as the following:

- over new concrete
- over concrete slabs damaged by rain or frost
- over hollowcore 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 Vetonit Plaano SL Plus can also be used as a trowellable skim coat over concrete floors. The addition of approximately 250 ml (9 fl oz) of TARGET Plaano Primer to the mixing water for each 25 kg (55 lb) bag of TARGET Vetonit Plaano SL Plus 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. 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 Vetonit Plaano SL Plus. Prefilling can be accomplished with TARGET Traffic Patch or TARGET Vetonit Plaano SL Plus.
3. The day before, or not less than 2 hours before placing TARGET Vetonit Plaano SL Plus, the floor surface must be sealed and primed with TARGET Plaano Primer. Drying time for the primer will vary with ambient temperature and relative humidity. The primer is mixed with water before 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 Vetonit Plaano SL Plus is applied over TARGET Primer. Allow the primer to become surface-dry before applying TARGET Vetonit Plaano SL Plus (minimum 2 hours). In cases where the substrate is very absorbent a second coat of primer should be

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applied after the first coat has dried. Allow the second coat to dry before applying the floor leveller.

4. Mix TARGET Vetonit Plaano SL Plus 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 Vetonit Plaano SL Plus to water. DO NOT add water to dry TARGET Vetonit Plaano SL Plus. The usual maximum water requirement is 5.00 to 5.50 Liters (5.25 to 5.80 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. After 1 to 2 minutes mixing, the compound can be placed or pumped.
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 (3.3 to 9.2 Imperial gallons or 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 compound remains fluid for approximately 20 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 levelled floor until the TARGET Vetonit Plaano SL Plus has developed sufficient strength - usually after 8 hours.

CAUTION

- TARGET Vetonit Plaano SL Plus 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 Vetonit Plaano SL Plus should be performed when bonding to the substrate is questionable.
- Where an adhesive is to be used to attach carpet or tile to TARGET Vetonit Plaano SL Plus, 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 not less than 5 days is necessary before applying a non-breathable covering over TARGET Vetonit Plaano SL Plus.
- High ambient temperatures will reduce flow time. For high temperature application the use of ice to cool mix water is advisable.

CURING

Moist curing of TARGET Vetonit Plaano SL Plus is not required or desirable. A relative humidity of 50% to 70% is ideal.

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TEMPERATURE

Mixture and air temperatures should be 5° to 25° C (41° to 78° F) during the application of TARGET Plaano Primer and TARGET Vetonit Plaano SL Plus. 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 Vetonit Plaano SL Plus surface due to carbonation or excessive removal of water from the compound.

TYPICAL PROPERTIES OF TARGET VETONIT PLAANO SL PLUS

FLUIDITY , mm Modified ASTM C191 2 minutes after mixing	240 - 270
WATER REQUIREMENT , liters/25 kg bag (US quarts/55 lb bag)	4.5 to 5.0 (4.75 to 5.25)
FLEXURAL STRENGTH , MPa (lb/sq.in.) ASTM C348 at 2 days at 7 days at 28 days	2.5 (360) 4.2 (610) 6.5 (940)
COMPRESSIVE STRENGTH , MPa (lb/sq.in.) ASTM C349 at 2 days at 7 days at 28 days	8.0 (1160) 16.0 (2320) 23.0 (3340)
DRYING SHRINKAGE , % volume ASTM C596, modified at 28 days, including 21 days drying at 30 ± 2° C (86 ± 4° F)	0.09 typical
TENSILE BOND STRENGTH , MPa (lb/sq.in.) to steel trowelled concrete 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 Vetonit Plaano SL Plus required for general floor levelling is 10 to 15 kg/m² (2 to 3 lb/ft²). Approximate quantity estimates can be based on the following yield data for 25 kg (55 lb) bags:

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

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