



Starpatch Concrete Products

#5-6420 Beresford Street,
Burnaby, B.C. V5E 1B6
Phone: (604) 433-7355 Fax: (604) 433-7358

Supa – Flat 25

Premium Industrial Self Leveling

Description: *Supa – Flat 25 is a cement based internal drying technology, rapid setting, super high flow self-leveling resurfacing compound for industrial or commercial wear topping or underlayment for floor coverings.*

Recommended Substrates:

- Cured concrete with at least 28 days of curing – must be free of all moisture conditions.
- Structurally stable interior fir plywood floors.
- DO NOT use *Starpatch Supa – Flat 25* on metal, particleboard gypsum and other non-stable substrates.

Surface Preparation:

- Substrate to be applied to should be free of all dirt, oils, dust, etc., or any other foreign material before application.
- Concrete substrate must be mechanically profiled by shot blasting, sandblasting, diamond-grinding, water-jetting or other engineer approved technique.
- Prime the substrate with *Starpatch Primeactive* bonding agent Use a brush to work the primer into the substrate. Apply two coats of primer. The first coat should be dry before applying the second coat. You may apply the first coat of *Primeactive* the day before. Allow primer to become very tacky or dry completely before applying the self-leveling mortar. **The use of any other primer may result in a poor bond.**

Mixing Instructions:

- In a clean mixing container pour in **4 Litres of Water** and slowly add the entire contents of a bag of *Supa – Flat 25* while stirring. Use a slow speed mixer (approx. 300-400rpm). Avoid over mixing. Mix for 2 to 3 minutes. After stirring the mixture apply the contents onto the surface as quickly as possible. To avoid air entrapment, do not over-mix.

Application:

- Best results will be achieved when the material is applied in a continuous flow. *Supa – Flat 25* can be applied using pumping equipment.
- If material can not be applied in a continuous flow, either a fast pass with a straightedge trowel or a spiked roller may be necessary to achieve a smooth transition from one mixture pour to the next. Material can be spread with steel trowel or squeegee.

Limitations:

- Recommended layer thickness of featheredge to 1".
- Temperature at time of application may not be lower than 10°C/45°F or greater than 35°C/95°F.
- If your substrate has a moisture vapor emission rate of 5lbs per 1000 sq/ft or more install a suitable moisture barrier first.

Curing:

- Protect from excessive heat, cold and draft conditions.
- Do not damp cure. Air cure for 24 hours before using curing compounds.

- Use warm water (approximately 20°C/68°F) in cold weather.
- Ready for foot traffic after 6 to 7 hours.
- Allow 48 hours before heavy industrial traffic.
- Allow 24 hours before scissors lift traffic.

Mixing Ratio: 4 Litres of clean water per 50Lbs Bag.

Application Temperature Range: 10°C/45°F to 35°C/95°F.

Self Leveling Time: 25 minutes.

Time Required Before Installation of Floor Coverings: 24 hours. *Supa – Flat* achieves less than 4% moisture content at 24hours after placing under normal temperature and humidity conditions. Installer must check moisture content before applying sealers or floor coverings.

Compressive Strength: (CAN/CSA-A5, ASTM C109)

1 day:	2260PSI	15.6Mpa
7 Days:	4300PSI	29.5Mpa
28 Days:	5600PSI	38.6Mpa

Flexural Strength:

28 Day: 1300PSI

Taber Abrasion Resistance (grams Lost):

28 Day Value (1000g weight-100 cycles):	0.6
28 Day Value (1000g weight – 500 cycles):	1.84

Shrinkage %: .05 (at 28days)

Reheal Time: >20 minutes

Shelf Life: One year in original unopened container if kept in dry storage.

Coverage:

1/8":	45 sq. ft.
1/4":	23 sq. ft.
1/2":	11 sq. ft.

Colour: Concrete light grey.

Packaging: 22.7 kg/50 lbs. Bag.

Caution: Contains cement, a polymer and other additives which may cause skin irritation. In case of skin or eye contact, wash thoroughly with water. Please consult the MSDS for detailed safety and handling instructions. In case of eye contact consult with nearest physician. **KEEP OUT OF REACH OF CHILDREN.**

Warranty: Starpatch Concrete Products warrants that if its products prove to have manufacturing defects and Starpatch is notified of such within 6 months from date of Starpatch shipping, Starpatch will replace the defective products F.O.B. factory. Such product replacement shall constitute the sole and exclusive remedy for any claim under this warranty. This warranty is in lieu of all other warranties, expressed, implied or statutory and is strictly limited to its terms. Starpatch makes no warranty of merchantability or suitability of its products for any particular purpose. Starpatch sells its products upon the condition that the customers shall conduct their own tests to determine the suitability of the products for the customers intended purposes. Under no circumstances will Starpatch be liable for economic, special, incidental or consequential damages or losses of any kind whatsoever arising out of or occasioned by the selection, use, installation or replacement of this product.

Starpatch Concrete Products, Burnaby, BC.

Phone (604) 433-7355