

mart-FLOW SL

SUPERIOR, CEMENTITIOUS HIGH EARLY STRENGTH SELF-LEVELLING SCREED
(3 – 10MM)

DESCRIPTION

mart-Flow SL, cementitious based, free flowing, quick setting, high early strength self-levelling underlayment floor screed.

mart-Flow SL specially designed with hydraulic cements, graded silica aggregates, resins and additives to ensure a high strength, durable surface with very low shrinkage. **mart-Flow SL** provides a very smooth, hardened finish that will be ready in approximately 12 hours to receive coverings.

CHARACTERISTICS/ADVANTAGES

- Single premixed pack and ready to use (just add clean water)
- Versatile to different substrates
- High early strength
- Very good flow characteristics
- Low shrinking characteristics
- Long pot life, self-healing up to 20min with a rapid post cure.
- 3mm – 10mm Hand applied application (Rake and Spike Roll)
- Pumpable

TYPICAL USES

- Where Underlayment is required prior to application of carpets, ceramic tiles, laminates, parquet, vinyl, epoxy coatings and polyurethane resin-based coatings or decorative flooring applications.
- For filling holes and depressions by using it as a cementitious thin scraper coat up to 5mm.
- Repair of uneven or sunken concrete floors.
- Giving old concrete floors fresh look.
- Can be applied over existing floor tiles.



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APPLICATION PROCEDURE

Surface Preparation:

- Concrete surface must be structurally sound, fully cured (28 days)
- Thoroughly clean all surfaces and substrates of chemical deposits, dirt, grease, form oils, efflorescence, paint, or other contaminants that could interfere with bonding.
- All loose concrete should be removed.
- Defects deeper than 5mm should first be patched with a scraper with **mart-Flow SL** prior to application.
- Diamond grind all surfaces prior to application to increase porosity at least 1mm and to remove any projections.
- All dust should be thoroughly removed by means of brush and or vacuum.

Priming:

Priming of Concrete

- Undiluted **mart-Keybond** must be applied to the concrete floor at 10 – 12 m²/L depending on porosity of the floor using a soft broom or PVA roller.
- Porous floors will require two coats of diluted with 50% water to obtain a non-absorbent surface.
- Test floor after priming with water to confirm that there is no water penetration.

Priming of Tiles

- Porous tiles such as clay tiles that most probably been contaminated with oils and cleaning products must be grind mechanically and degrease as best as possible.
- All dust should be thoroughly removed by means of brush and or vacuum.
- **mart-Prime 321** epoxy primer must be applied as a scraper coat and covered completely with fine scatter sand.
- Excess sand must be sweep and clean.
- Prime with undiluted **mart-Keybond** for optimal adhesion before applying **mart-Flow SL**.

Mixing:

- Use cool, clean water, clean tools and clean containers.
- Add 4 L required water into the clean container. (Do not exceed recommended water ratio result in weakened compound and lower strength.)
- Mixing with a mechanical mixer at a slow speed, start adding **mart-Flow SL** slowly whilst mixing.
- Mix to a uniform lump free fluid consistency minimum 2 – 3 minutes.
- Allow product to stand for 2 – 3 minutes, remix before application.
- Warmer temperatures will reduce the working time and flowability of the product.
- By using cold water at medium temperatures, will assist in product keeping it self-levelling properties.

TECHNICAL DETAILS

Appearance	Grey
Components	Single pack
Mix Ratio	4 L (water): 20kg Bag
Yield	12 L
Coverage	4m ² @ 3 mm
Pot Life	30 min
Working Time	15 to 20 min
Initial Set	2 hrs
Walk On Time	3 to 4 hrs
Normal Traffic	12 hrs
Compressive Strength	≥ 15 Mpa, 1 Day ≥ 18 Mpa, 3 Days ≥ 25 Mpa, 7 Days
Flexural Strength	≥ 4 Mpa
Bond Strength	≥ 1.5 Mpa

PACKAGING

mart-Flow SL is supplied in 20 kg poly-woven bags.

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PLACING & APPLICATION

Honoring of Joints

- Under no circumstances should **mart-Flow SL** or selected priming course be installed over moving joints or moving cracks without reaming joint after application.
- All moving joints, expansion joints and isolations joints should be honoured through the floor.
- By using nails, all joints can be marked before application for ease of reaming after application.

Application

- Avoid application in direct sunlight.
- Always apply to a pre-primed surface.
- Mixed material must be used within 15 minutes or less depending on ambient weather conditions for best self-levelling results.
- Pour mixed product onto primed floor.
- Spread **mart-FLOW SL** by using an 8mm notched rake (3mm thickness) or pin rake set to desired thickness.
- For adequate self-levelling smooth **mart-Flow SL** with a trowel and spike roll thoroughly in two directions to remove entrapped air.
- **For best results mixed product should be placed in working time 15 – 20 minutes.**
- **Once system is dried (12 hours) lightly rub down with 100 grit paper to ensure that there are no projections.**

CURING

50 Mpa, 7-day Full Cure.

CLEANING AND STORAGE

- **Use soapy water to clean hands and tools immediately after use.**
- Dried material can be removed mechanically.
- Store in a cool dry place.
- 12-month Shelf life from date of manufacturing if kept in the original packaging.

HEALTH AND SAFETY

In all cases, consult the Material Safety Data Sheet before use.

Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/ protective clothing/ eye protection. Wash face, hands and any exposed skin thoroughly after handling. For further health and safety information refer to the product SDS.

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