YASMO MISR
CHEMICALS FOR CONSTRUCTION

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FLOWSCREED P

TECHNICAL DATA SHEET

1.0 Description:

- One component polymer-modified cementitious based self-levelling product characterized by high Flowability, high adhesion to substrate.
- Can be used by pump or manual application.
- Low shrinkage.
- Has good workability throughout its long pot life.
- Good surface appearance and hardness.
- Suitable for use with under floor heating systems.

2.0 Uses:

- FLOWSCREED P is a floor self-levelling screed to level or smooth screeds and concrete floors at a thickness between 2–6 mm in one working step
- For filling, smoothing and levelling of suitable substrates before applying parquet, ceramic tiles, seamless, textile, elastic floor coverings.

3.0 Approval &Certification:

Pull off Strength to concrete	: ASTM D7234
Impact Resistance	: ASTM D2794
Abrasion Resistance	: ASTM D4060
Compressive Strength	: ASTM C109

4.0 Colours:

Grey Cementous colour

5.0 Product Data:

5.1 General:

Binder	: hydraulic and synthetic co-polymer acrylic
Class	: P3 floor Levelling
Solid Content for the mix	: 80 ±1%
Wet Density for the mix	: 1.92 gm/cm^3
Flowability Diameter	: 13.00 cm using cylinder 3 mmm
Pull off Strength to concrete	: 1.9 N/mm^2

5.2 Impact Resistance:

Thickness (mm)	Substrate Thickness (mm)	Punch diameter(mm)	Weight (kg)	Height (cm)	Observation
2	16	12.5	0.5	10	No cracks

5.3 Abrasion Resistance:

No of cycles	Weight (gm)	Used Wheel	Weight loss (control) (mg)	Weight loss (sample) (mg)
1000	1000	CS17	0.439	0.209

5.4 Compressive Strength:

W/C ratio 12% N/mm^2	W/C ratio 14% N/mm^2	W/C ratio 16% N/mm^2	W/C ratio 18% N/mm^2	W/C ratio 23% N/mm^2 (calculated)
66.5	59.86	51.56	41.15	20-22

1.0 Film Thickness:

Wet Film Thickness : 2.00 – 6.00 mm
Dry Film Thickness : 1.50 – 4.70 mm

Note: Above film thickness depends on application system and floor irregularities.

2.0 Consumption per coat:

Consumption (Powder + Water) : 4.0 – 11.0 kg/m^2/coat

Note: Above consumptions depend on application system and floor irregularities

3.0 Surface Preparation:

- Can be applied on cement substrate like:
  - *R.C concrete (reinforced concrete)*
  - *P.C concrete (plain concrete)*
  - *Cement mosaic tiles*
  - *Screeds*
  - *Ceramic tiles*
- Conventional concrete curing compounds should be removed before application.
- Any concrete treatment shall be removed before application.
- Substrata should be cleaned from oil. Grease, dust ….
- Spelled concrete should be cut back until reaches sound concrete and repaired with suitable repairing mortar.
- Substrate surface temperatures are above 5°C and lower than 35°C,
- Damaged areas shall be repaired using the suitable mortar.
- Clean substrate before application.
- Wet substrate before application.

4.0 Application Methods:

1. Substrate should be prepared in compliance with the technical above prescription.
2. Substrate should be clean, free from impurities
3. Wet the substrate, directly before application
4. Add component B (powder) to water, mix thoroughly (using a mechanical mixer) for 5 min till you get lumps free mortar,
5. Pour the material on the floor to allow flowing, till it has reached the required level, using the suitable tool.
6. The Mix should be applied within 30 min after mixing

Notes:

- *Temperature of the substrate should be min 10°C and below 40°C.*
- *Good ventilation should be ensured*
- *No loading for at least 24 hours.*
- *Highly absorbent substrates must be primed or saturated with water to prevent he absorption of the mixing water into the substrate and which can cause problems such as shrinkage, the appearance of surface pores or weak and dusty surfaces etc.*
- *FLOWSCREED P must be protected from damp, condensation and water for at least 24 hours of application*
- *Do not exceed the recommended thicknesses per application. For higher thicknesses repeat the application on the next day*
- *Raw material may vary in the color, texture, pores on the surface due to the nature of cement.*
- *Under certain circumstances (drafts, sunlight, humidity, etc.) hairline cracks can be expected.*
- *Not suitable for slopes or inclines > 0.5 %.*

5.0 Weight and Product mixing Ration by weight:

W/C ratio	: 23%	by weight
Container	: Double Sealed plastic bags	
Weight	: 25.00	kg

Notes:

- *Slow Mechanical Mixing is recommended*
- *Mixed components should be transferred to a third container and remixing should take place to reach ultimate results*
- *Do not mix with other cements or cement-based screeds.*
- *Do not exceed the recommended liquid dosage.*
- *Never add excess water when the product is starting to set.*

6.0 Pot life, Drying and curing time:

Initial Curing Time	: After 24 hours of mixing.
Curing Treatment	: Moist curing is recommended for the first 24 – 48 hours according to ambient temperature.
Final Curing Time	: After 28 days at ambient temperature.
Pot Life	: 30 min. at 24^0C

Notes: Temperatures below +20 °C extend the drying times.

7.0 Recoating:

- After 24 hours
- When over coating with adhesives, additional mechanical preparation may be required to improve adhesion.
- A preliminary test area is recommended when other products are used for covering.

8.0 Disclaimer:

- The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. We cannot guarantee anything but the above-mentioned quality of the products themselves. Minor product variations may be implemented to comply with local requirements. We reserve the right to change the given data without further notice. Users should always consult us for specific guidance on the general suitability of this product for their needs and specific application practices.
- Samples of any approved delivered materials shall be retested after delivery.
- These products are for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to our technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to our responsible representative for approval before commencing the work.

9.0 Handling of Cement Products:

- Avoid contact with eyes and skin. Emergency showers and eyewash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.
- Use personal protective equipment.
- When using, do not eat, drink, or smoke.

10.0 Compatibility:

- Primers applied prior to specified product shall always be acrylic or cement-based products.
- Finishing layers can be cement, acrylic, alkyd, epoxy or polyurethanes products.

11.0 First aid Measures:

- General advice: Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
- Skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Initiate and maintain gentle and continuous irrigation.
- Take off contaminated clothing and shoes immediately.
- Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation: Move to fresh air.

12.0 Storage:

- Store above ground and surrounded by dikes to contain spills or leaks.
- Do not store in humid or extra hot weathering conditions.
- Keep containers tightly closed away from heat &in dry, cool, and well-ventilated place.