

ALTROFLOW

SELF SMOOTHING EPOXY FLOORING

Altroflow is a three component, epoxy -based self-smoothing floor topping, which produces a smooth, durable and easily cleaned seamless surface.

Available in three standard grades and a static dissipate version, Altroflow can be installed in thickness of between 1-5mm to meet cost and performance requirements.

ALTROFLOW GRADES AVAILABLE

Nominal 1mm
Nominal 2-3mm
Nominal 5mm

TYPICAL AREAS OF USE

- Production Halls
- Workshops
- Warehouses
- Storage Areas
- Garages
- Plant Rooms

ADVANTAGES

- Easy to Install
- Seamless
- Variable Traction *
- Good Chemical Resistance
- Durable
- Abrasion Resistant

* HEALTH and SAFETY WARNING

Wet Floors can be Dangerous, A Duty of Care Must always be Exercised in Wet Areas. see (*Slip Resistance section*)

SUITABLE SUBSTRATES INCLUDE

Concrete, Granolithic, Stone, Terrazzo, Brick , Timber / MDF – Metal.

STANDARD COLOURS

Wedgwood, Cloud, Terra, Gunmetal, Maize, Spruce, Oatmeal, Dawn, Mink, Ruby, Stone, Flint, Ink Blue, Wine Red, Winter Grey, Autumn Yellow, Safety Red, Safety Yellow, White, Black

LOW TAIN

Altroflow is a solvent free system, permitting its use in food preparation and other sensitive areas where tainting is a risk. With certain foodstuffs and confined areas it is advisable to run screening tests prior to installation.

CHEMICAL RESISTANCE

Altroflow affords excellent resistance to a wide range of commonly used chemicals. An extensive listing is shown in the Chemical Resistance Data Sheet.

SLIP RESISTANCE

The surface characteristics of Altroflow can be modified to give varying degrees of traction through the inclusion of specific aggregates. Refer to instruction sheet ref. no. ATD 032 "Altrogrip Systems".

SUBSTRATE REQUIREMENTS

Surfaces should be dry, structurally sound and free from any contamination that may affect either adhesion or penetration of Altro Resin-based systems. All residues of old paint coatings, installation laitence and dust must be removed. Ensure that floors and walls have an effective DPM installed.

PREPARATION

Detailed instruction sheet ref no. ATD 029 is available on request covering all aspects of surface preparation and product application procedures.

INSTALLATION CONDITIONS

Altroflow should be spread by notched trowel or adjustable rake to the required thickness using stated coverage rates as a guide. The resin surface is then worked with a spiked roller for at least 5 minutes until an even level surface is produced. The surface should be rolled again after 30 minutes, the applicator wearing spiked shoes to gain access to the floor, see instruction sheet "Storage Application and Handling" ref no.#####. Maintain application and subsequent cure temperatures between + 13^o - + 25^oC. Never install on a falling thermometer of below +5^oC since freezing will destroy the material cure mechanism. (Min slab temperature +5^oC).

FLOOR JOINTS/DETAILING

Refer to instruction sheet.

COVERAGE

Altroflow @ 1mm - 10.7m²/15kg unit
Altroflow @ 2mm - 6.7m²/24kg unit
Altroflow @ 3mm - 4.5m²/24kg unit
Altroflow @ 5mm- 3.3m²/32kg unit

Material usage is dependent upon temperature, surface profile and porosity, stated coverage rates should be referred to for guidance only and cannot be relied upon to determine exact quantities

OVERCOATING TIMES

Minimum 10 hrs. Maximum 24 hrs. If this time period is exceeded the surface should be lightly abraded and vacuumed before further coats are applied.

DATA SHEETS CANNOT COVER EVERY SITUATION. IF IN DOUBT. ASK.

Orders to: Tel: 0800 663360 Fax: 0800 663361

General and Technical enquiries to: Tel: 01462 707600 Fax: 01462 707515

email: care@altro.co.uk

PROPERTIES

| | Altroflow 1mm | Altroflow 2/3mm | Altroflow 5mm |
|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| APPLICATION TEMPERATURE | 13 ⁰ - 25 ⁰ C | 13 ⁰ - 25 ⁰ C | 13 ⁰ - 25 ⁰ C |
| GEL TIME (100G @ 20 ⁰ CC) | 100mins | 100mins | 100mins |
| TACK-FREE TIME | 8-10hrs at 20 ⁰ C | 8-10hrs at 20 ⁰ C | 8-10hrs at 20 ⁰ C |
| FOOT TRAFFIC | 48hrs | 48hrs | 48hrs |
| FULL CURE | 7days | 7days | 7days |
| AVERAGE FILM THICKNESS | 1mm | 2-3mm | 5mm |

TYPICAL PHYSICAL PROPERTIES

| | Altroflow 1mm | Altroflow 2/3mm | Altroflow 5mm |
|---|--------------------------|----------------------------|--------------------------|
| HARDNESS/SHORE D | 84 | 83 | 85 |
| TABER ABRASION (wt.loss/H22 wheel/1kg/100revs) | 0.06% | 0.037% | 0.057% |
| SLANT/SHEAR BOND STRENGTH (BS 6819 pt 4) | 24.4N/mm ² | 16.3N/mm ² | 23.4N/mm ² |
| WATER ABSORPTION (BS 2782) | +0.2% | 0.14% | 0.16% |
| RESIN DENSITY (BS 6319) | 1.72g/cm ³ | 1.87g/cm ³ | 1.99g/cm ³ |
| RADIOLOGICAL DECONTAMINATION (BS 4247) Factor 1155 | | Class Excellent | |
| TEMPERATURE OF DEFLECTION (BS 6319 pt10) | 49.5 ⁰ C | 49.1 ⁰ C | 51.3 ⁰ C |
| FLEXURAL MODULUS OF ELASTICITY (ASTMD790) | 595Mpa | 572Mpa | 1125Mpa |
| TENSILE STRENGTH/ELONGATION (BS 6319 pt7) | 17.94N/mm ² | 14.35N/mm ² | 15.51N/mm ² |
| COMPRESSIVE STRENGTH (BS 6319 pt2) | 74.8N/mm ² | 68.8N/mm ² | 74.9N/mm ² |
| FLEXURAL STRENGTH (ASTM D790) | 38.47MPa | 34.35MPa | 35.34MPa |

Packaging:

| | | | |
|---------------------------------------|------|------|------|
| Available in 3 part composite packs @ | 15kg | 24kg | 32kg |
|---------------------------------------|------|------|------|

Associated Data Sheets and Further Information

- Surface Preparation
- Application Methods
- Chemical Resistance Chart
- Floor Maintenance - Resin Based Products
- Storage and Handling - Resin Based Products
- Material Safety Data Sheet - Altroflow

DATA SHEETS CANNOT COVER EVERY SITUATION. IF IN DOUBT. ASK.

Orders to: Tel: 0800 663360 Fax: 0800 663361

General and Technical enquiries to: Tel: 01462 707600 Fax: 01462 707515

email: care@altro.co.uk