

TRAXX

Smooth or non-skid floor coating system

May 2024

PURPOSE AND AREAS OF USE:

Traxx is a chemical-resistant hard-wearing floor coating available in smooth and three grades of non-skid finishes. It can be used in areas subjected to traffic or where non-slip characteristics are essential, and/or where protection of the substrate from aggressive agents is required. Traxx smooth and non-skid can be applied to vertical surfaces. If used in exterior situations, Traxx should be overcoated with one coat of Colourcure for maximum weatherability.

PRODUCT:

Traxx is a single component chemical and abrasion resistant industrial polyurethane coating. Medium and coarse non-skid grades require a separate application of special aggregate within the multi-layer system.

PROCESS COMPATIBILITY:

Traxx can be applied over existing polyester, and epoxy floor coatings after correct preparation and priming. Traxx can be overcoated with Colourcure and Clearcure.

COLOUR:

Traxx is available in a range of oxide colours including green, brown, red, yellow and terracotta, and in concrete grey. Selected mid-tone colours from BS2660 and BS4800 can be produced, subject to minimum order quantities and possible surcharge.

STANDARD PACK:

4 litre metal triple-tight cans.

PHYSICAL PROPERTIES:

Liquid Material	Smooth	Non-skid
Solids (% by volume)	72%	62%
Specific gravity	1.15	1.35
Flash point	38°C	38°C
Shelf life	2 years in original sealed cans when stored in cool dry conditions	
Applied Film		
Flexibility	Passes 3 mm mandrel @ 75µ D.F.T. (ASTM D1737-62 (1979) at 23°C on galvanised steel substrate).	
Durability	Traxx is not normally recommended for exterior use without topcoating as it may yellow on exposure. As an interior chemical and abrasion resistant finish the coating exhibits excellent durability.	
Abrasion resistance	5 gm weight loss (Taber Abraser CS-10 wheels 1 kg load 100 revs measured on smooth film).	
Normal film thickness	Smooth film - 140 microns per coat.	
Chemical resistance	Traxx exhibits excellent all round chemical resistance typified by the following: (12 months immersion tests at 23°C) Xylene <i>NE</i> Ethanol <i>NE</i> Ethyl Glycol Acetate <i>NE</i> Chloride Soln <i>NE</i> Potassium Hydroxide <i>NE</i> Sulphuric Acid 10% <i>NE</i> Acetone soften 10 days Hydrochloric Acid <i>NE</i> Skydrol 500B <i>NE</i> Petrol <i>NE</i> Nitric Acid <i>NE</i> Lactic Acid <i>NE</i> Distilled Water <i>NE</i> White Spirit <i>NE</i> * <i>NE</i> indicates No Effect	
Fungus resistance	Traxx presents an inert surface which will not support the growth of mould or fungi.	

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SURFACE PREPARATION:

Uncoated surfaces (cement based)	Ensure surface is dry and free of all loose material, efflorescence, dirt etc. Mosskill where necessary and allow to dry. Remove nibs and protrusions and make good surface damage with Traxx Filler or epoxy mortar and allow to cure.
Uncoated surfaces (metal)	Sandblast or clean chemically, depending on metal type or condition.
Uncoated surfaces (timber)	Ensure surface is dry and clean. Flush fill all fastening holes and joints with Traxx Filler and allow to cure.
Previously coated surfaces	Determine nature of existing coating and refer to Manufacturer for specific cleaning/priming procedures. If existing coating type is not known, advise whether aggregate filled or thin film, rigid, flexible or sheet-type material.

PRIMING:

Nearly all surfaces will be primed with Traxx Primer 1070, but on some synthetic surfaces, special Traxx Primers may be stipulated. General recommendations are as follows:

Concrete, plaster, timber, quarry tiles	Traxx Primer 1070 at 10-11 sqm/litre.
Porous concrete and tiles, some timber composition board	Two coats Traxx Primer 1050 at 8-10 sqm/litre/coat.
Steel flooring and grates	Protexx Zincure at 10-11 sqm/litre.
Non-ferrous metals, plastics, synthetic surfaces	Refer to Manufacturer for specific recommendations.

For all primers on all surfaces, the first coat should be brushed, to achieve maximum penetration and adhesion.

APPLICATION METHOD:

Traxx and Traxx NS are normally applied by brush or for preference, roller. The materials are applied direct from the can without thinning, and with frequent stirring of Traxx NS to ensure continual suspension of the silica aggregate and consequent even spreading of the finish.

Medium and Coarse Non-skid systems are produced by broadcasting the appropriate grade of Traxx NS Aggregate on to the first full coat of Traxx whilst it is still wet. (See Application Properties). Broadcasting is generally to excess, with non-adhered aggregate being swept from the surface prior to application the next coat of Traxx. This aggregate can be recovered and re-used if desired.

Spray application is not normally recommended but if large areas are to be coated and spraying appears technically or economically desirable, contact the Manufacturer for specific recommendation.

Handling notes:

1. Open carefully - Relieve any pressure build-up by carefully levering rim up while pressing down on lid. Then open normally.
 2. DO NOT STIR VIGOROUSLY - Work any soft-settle or aggregate carefully back into body of material.
- This product is moisture sensitive - Use only dry equipment and keep container tight-closed when not in use. Part-full containers should be blanketed with CO2 gas to inhibit cure, and used as soon as possible.

APPLICATION PROPERTIES:

SPREADING RATE:

Traxx (smooth)	20-22 sqm/4 litre unit maximum
Traxx NS	18-20 sqm/4 litre unit maximum
Traxx NS Aggregate	1.0-1.2 kg/sqm depending on grade and profile

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APPLICATION PROPERTIES (continued):

DRY TIME:

Do not apply Traxx in air temperatures of less than 5°C or when surface temperature is less than 3°C as prolonged tack-free times may result and must be allowed for.

At 23°C and 50% RH:

Sand dry	3 hours
Touch dry	6 hours
Through dry	24 hours
Full cure	2-3 days

Higher humidity and/or temperatures will accelerate touch-dry and through-cure.

RECOAT TIME:

Traxx Primer 1070 must be recoated within 8-10 hours. If left overnight repriming is mandatory.

Traxx (all coats) must be recoated within 18 hours to ensure satisfactory adhesion.

In general, recoat as soon as the previous coat can be safely worked over without disturbing its adhesion or surface profile.

THINNING/CLEAN UP:

Thinning is not generally necessary with Traxx, but clean up of equipment (and any slight thinning if required) should be done with Xylol immediately after use. Traxx cures on exposure to atmospheric moisture and is very difficult to remove when cure is underway.

SPECIFICATION NOTES:

Traxx is always applied in a minimum of two coats with appropriate primer, whether smooth or non-skid and when applied as Medium or Coarse non-skid grades, includes a specific grade of Traxx Non-Skid aggregate and an additional seal coat of Traxx.

When Traxx is specified for exterior use, it must always be overcoated with at least one full coat of Colourcure which provides weatherability and lightfastness without detracting from its chemical or abrasion resistant properties.

If Traxx is to be specified for use over an existing synthetic flooring the Manufacturer must be consulted for specific surface preparation/priming recommendations.

Traxx can be applied to vertical surfaces such as drain sides and floor coving, and in remedial situations in-plant where work must be done speedily and possibly at low ambient temperatures. Traxx smooth can be used as a chemical and abrasion resistant wall finish with spreading rates greater than for floor coating application.

Note that where expansion/movements occur in floors, Traxx should not be carried over the joints, which should be flush-filled with an appropriate elastomeric sealant, preferably after application of the Traxx coating. Note also that Medium and/or Coarse aggregates can be incorporated in specific areas within a Traxx coated surface to provide walkways, vehicle lanes etc.

Where a general specification must be included in tender documents or schedules, the following format is recommended for inclusion under "Special Finishes".

"The floor coating shall be a minimum three coat Traxx (specify Smooth, Non-skid, Medium, Coarse) Process, incorporating Traxx NS Aggregate where nominated and primer(s) specific to the construction surface(s). Areas shown (specify location) shall be overcoated with Chevaline Colourcure. (Delete this clause for normal interior applications). The coating shall be applied by an Approved Equus Contractor to all surfaces nominated in this schedule working strictly in accordance with the application requirements stipulated by the Manufacturer for the nominated surfaces and performance requirements."

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MAINTENANCE:

As with any high performance floor coating, regular washing will enhance the ultimate durability of Traxx Systems. Use low-medium pressure water spray with mild detergent addition specific to the type of contamination. Mechanical damage caused by sharp impact or heavy point abrasion can be repaired by heavy sanding, solvent wiping with Colourcure Thinners, re-priming and application of further Traxx material using standard procedures.

WARRANTIES:

Long-term warranties are not normally offered for Traxx floor coatings because of the considerable possibility of undue mechanical damage in industrial service. A 12 month warranty of workmanship, backed by the Manufacturers warranty of material quality, may be offered and should be coupled with a requirement for an annual maintenance survey to ensure coating integrity and long-term performance. Warranties for longer periods may be offered but will be specific as to service conditions and exclusion of mechanical damage.

HEALTH AND SAFETY:

Traxx is a solvent-based urethane coating. All normal precautions for handling solvent-borne materials must be observed including:

- Storage in cool dry conditions away from naked flames.
- No smoking in area while handling or applying Traxx.
- Use of barrier cream on exposed skin.
- Use of solvent cartridge mask and safety goggles while handling material.

Note that this material contains a small proportion of free isocyanate monomer with very low vapour pressure. For normal application it presents a very low health hazard, but in some countries special handling regulations may pertain.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	New Zealand
Legal and trading name of manufacturer	Equus Industries Ltd.
Manufacturer address for service	4 Sheffield Street, Blenheim 7274
Manufacturer website	www.equus.nz
Manufacturer email	info@equus.nz
Manufacturer phone number	03 578 0214
Manufacturer NZBN	9429032000306