

H3402_UC HGXC Coarse Safety-Grip™ Data Sheet

Description

The product is manufactured from a plastic film base with a top coating of aluminium oxide granules to provide slip resistance, the base has a thick coating of acrylic adhesive, and the adhesive is exposed by removing the protective paper backing liner.

Application

Due to the specific formulation of H3402HG it is solely designed for use in industrial, heavy duty applications, typically construction equipment, agricultural machinery, access platforms etc. The large valleys in the minerals afford an ability to prevent clogging when saturated with soil, mud and other contaminants thus still offering a safety surface whilst its high quality adhesive is designed to adhere onto powder coated metals which sometimes possess a low energy value requiring exceptional tack levels for permanent bond. It's very harsh and deep grit coating does not lend itself to conventional anti slip requirements, for these applications please try our standard (H3401) or possibly coarse version (H3402).

Product advantages

- ✓ Unique high performance and high coat weight adhesive formulation for permanent bonding onto even the most difficult surfaces
- ✓ Large grit granule anti slip top coating – prevents clogging to ensure it remains an effective anti slip surface even in muddy and soiled conditions
- ✓ Thick and tough plastic base helps prevent tearing and ensures it remains the longest lasting of all self adhesive anti slip materials. H3402HG is at least twice as thick as conventional anti slip materials
- ✓ Resistant to chemicals
- ✓ Can be easily installed

Available sizes

Any size is available, please enquire

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Test Method	Value/result		Test method															
Applied thickness MIL D-17951	1.74mm		Calliper															
Flammability	4 acceptances Test certificate 20151/1		Tests performed by Civil Aviations Authority testing house; Laboratory Testing Services Ltd in Otley, UK according to BS5438:1976 Test 2 and BS5867:1980 Part 2 (For our specific aviation approved flame retardant anti slip material please refer to our H3424)															
Peel adhesion, N/25mm	17.9		180° FINAT FTMI															
Tensile strength, N/25mm	76.4		Lloyd, 500N load cell															
Resistance to U.V.	Good		Grey scale test															
Applied weight	1255 g/m²		N/A															
DIN 51130 (ZH1/571), German slip resistance test Safest result possible, test performed by Säurefliesner-Vereinigung E.V. Research and advisory institute for floor and wall coverings	R13		Inclined Platform Test for Slip Resistance In Shod Conditions The critical angle at which a test person reaches the limit of safe walking on an inclined plane is used as a measure of slip resistance. <table><tr><td></td><td>Operator 1 - Angle of Inclination</td><td>Operator 2 - Angle of Inclination</td></tr><tr><td>No.</td><td>°</td><td>°</td></tr><tr><td>1</td><td>>40</td><td>>40</td></tr><tr><td>2</td><td>>40</td><td>>40</td></tr><tr><td>3</td><td>>40</td><td>>40</td></tr></table>		Operator 1 - Angle of Inclination	Operator 2 - Angle of Inclination	No.	°	°	1	>40	>40	2	>40	>40	3	>40	>40
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No.	°	°																
1	>40	>40																
2	>40	>40																
3	>40	>40																
Coefficient of friction (slip resistance)	Dry	1.33	Coefficient of friction (slip resistance), ASTM C 1028-96 (static method) High figures indicate higher slip performance, tests performed by Sotter Friction Testing Laboratory															
	Wet	1.21	High figures indicate higher slip performance, UK Slip Resistance Group guidelines put this in the best safety category, tests performed by Sotter Friction Testing Laboratory															



Coefficient of friction (slip resistance), Pendulum method (dynamic method), Conducted using TRL rubber	Dry	102	High figures indicate higher slip performance, UK Slip Resistance Group guidelines put this in the best safety category, tests performed by Sotter Friction Testing Laboratory
	Wet	80	High figures indicate higher slip performance, UK Slip Resistance Group guidelines put this in the best safety category, tests performed by Sotter Friction Testing Laboratory
Minimum application temperature	4°C		N/A
Minimum service temperature	-30°C		Tests performed by Adhesive Technical, Purfleet, UK
Maximum service temperature	70°C		Tests performed by Adhesive Technical, Purfleet, UK
Adhesive strength	33.0		Test result taken 14/7/2006 by Adhesive Technical Services Ltd, Purfleet, UK, conducted according to AFERA specification Higher figures indicate higher adhesive performance.
Maximum size of master roll	1168mm x 100m		N/A
Elongation at break PSTC-31	25%↑		PSTC-31
Resistance to water (months) PSTC-35	10		PSTC-35
Resistance to chemicals PSTC-35	Excellent		PSTC-35
Resistance to motor oil PSTC-35	Excellent		PSTC-35

LRV Test Results

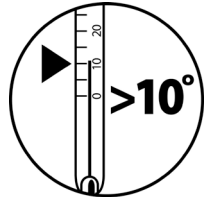
SKU (Colour)	RAL	Pantone	Av. LRV	Range
H3402NUC (Black)	9004	Black U	0	0
H3402VUC (Green)	6004	7484 U	0.6	0.9



But for best results follow the instructions below to ensure maximum performance in all environments.

1) Material Storage

Ensure the material is kept in dry, warm conditions in the original protective packaging.



2) Surface Preparation

A clean, dry surface is essential. Use an IPA cleaner to remove all surface contaminants (paint flakes, etc) – DO NOT use methylated spirits/petrol/lighter fluid etc as these leave behind a thin, greasy residue. Ensure prepared surface is above 10°C.



3) Porous Surface Sealing

Porous surfaces must be sealed prior to application to prevent water attacking the adhesive. Toluene based primers are ideal - we recommend our own product for this job. Apply a thin coat to the cleaned surface using a paint brush, then leave to dry.



4) Tape Application

Peel back part of the release liner then press the adhesive firmly onto the prepared surface, and slowly keep peeling back the liner while applying the tape. Try to ensure that the tape is not taut.



5) Finish!

Once applied, press tape down firmly using even pressure (decorating rollers are excellent for this). We recommend sealing the edges using 'edge fix' as this will extend the life of the product. Only use a small amount down the edges, a thin bead.

If correctly applied, the new anti-slip surface can be walked on straight away, though you will get maximum benefit from the adhesive system after 48 hours.

All the above data is for reference only.

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