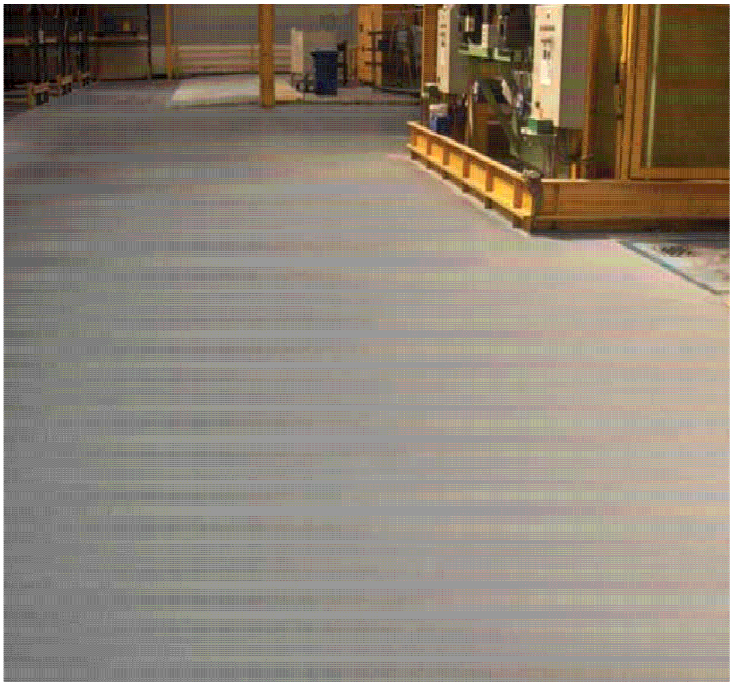
QUATTRO
CONTRACTING (PENRITH) LTD

UNITS 5/6 ULLSWATER
BUSINESS PARK
PENRITH, CUMBRIA, CA11 7EH
Tel: 01768 868004
Fax: 01768 865195
www.quattrocontracting.co.uk

Q/TUFF MD



Standard Colour Chart

Note: The colours represented here act as a guide only. If colour or final aesthetics are of prime concern, please contact us and request an actual sample.

DESCRIPTION

The Q/Tuff M.D system is a heavy duty flow applied topping based upon polyurethane technology which provides excellent resistances to abrasion, chemical attack and other physical aggression.

COMPOSITION

Water dispersed polyurethane resin system combined with graded silica aggregates.

APPEARANCE

Seamless matt, smooth finish of uniform colour.

DURABILITY

Highest order of durability, resistance to abrasion, impact, chemical attack and penetration.

THICKNESS

Q/Tuff M.D – Applied between 3 and 5mm

TYPICAL INSTALLATIONS

The Q/Tuff M.D system is ideally suited to areas subject to heavy duty use: -

Chemical processing

Food processing/wet areas

Brewing/dairy clean areas

Engineering process areas

SUBSTRATES

Concrete, polymer reinforced screeds, grano concrete, mild steel and water resistant plyboard.

Q/TUFF MD TECHNICAL DATA

SURFACE PREPARATION
To be assured of maximum adhesion and properties from Quattro resin products the correct surface preparation is essential. In order to ensure the finished system remains fully bonded to the subfloor, it is recommended that the edges of the floor area adjoining the walls are rebated to produce a cross-section of 20mm deep by 8mm wide, running at 150mm from and parallel with the walls.

APPLICATION CONDITIONS
5-30° C Maximum moisture content of 75% RH

PRIMING
Priming of all surfaces should be undertaken with Q/Prime S.F. The primer should be allowed to cure for a minimum of 16 hours prior to application of the Q/Tuff M.D system. (Maximum overcoating time at 20°C – 48 hours).

MIXING
Q/Tuff M.D is a three-component product. Pre-mixing of the coloured liquid resin component is recommended to ensure any light settlement is reincorporated. Thoroughly drain the contents of the brown hardener component into the liquid coloured component and mix for a minimum of 1 minute or until a homogeneous mix is obtained. The resultant resin blend should then be loaded into a rotary drum mixer and the aggregate component added in stages, mixing until a lump-free, smooth mix is obtained.

APPLICATION TECHNIQUE
Apply to pre-primed areas levelling to the required thickness with a steel trowel and aided by a Quattro spiked roller. Spiked rollering should be carried out within 3 minutes of application in order to avoid interfering with the film gel time.

COVERAGE RATES

Q/Tuff M.D at	4.0mm	5.0mm	6mm
Coverage kg/m²	7.60	9.50	11.40

SPECIFICATION DETAIL
Q/Prime S.F. at 100-175g/m².
Q/Tuff M.D. at coverage rates as above.

MAINTENANCE
Providing contamination is not allowed to build up, regular scrubbing and mopping will maintain these systems in serviceable condition. Normal proprietary cleaning agents in combination with pressure washing may be employed. Early trafficking prior to full cure being achieved can in some instances ingrain into the surface contamination which may produce a cosmetic loss but does not detract from the performance of the system.

CURE SCHEDULE
Usable Life of full unit/mix at 20° C - 15 mins
Initial film gel time (joining up) at 20° C - 20 mins
Cure time to light traffic at 20° C - 4-6 hours
Cure time to light wheeled traffic at 20° C - 16 hours.
Cure time to heavy duty traffic at 20° C - 48 hours
Full Chemical cure at 20° C - 3-5 days

CHEMICAL RESISTANCE
Excellent resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents. Only when full chemical cure has taken place.

COLOURS AVAILABLE
All standard Quattro colours except white, and magnolia.

TECHNICAL DATA

Compressive strength to BS6319 Part 2 (N/mm²)- 62.0 Tensile strength to BS2782:320D (N/mm²) - 15.0 Flexural strength to A.S.T.M. D790-84a (N/mm²)- 35.0
Elastic modulas to BS2782:320D (N/mm²) - 1530.0 Slant shear bond strength to BS6319 (N/mm²) - 55.0
Abrasion resistance by Taber mg loss/1000 cycles/1kg load with H18 wheel - 900
TRRL slip resistance - 65 Dry
Surface spread of flame to BS 476 Part 7 - Class 2

HEALTH AND SAFETY
Please read technical data sheet reference TD103 and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

STORAGE, MIXING & APPLICATION
The storage, mixing and application conditions can affect the quality of the finish produced.

TECHNICAL ADVICE
For further information on this or any other Quattro product, please contact our Customer Care Department on 01768 868004.