



Tufcon 80

HD Polymer Reinforced Screed

USES

Tufcon 80 is a heavy duty flooring system with a high level of resistance to mechanical damage and light chemical attack. Tufcon 80 is ideally suited for use in areas where conventional granolithic and cementitious systems fail to give the necessary level of performance. Tufcon 80 is used in a wide range of environments including bakeries, food manufacturing areas, breweries, engineering shops, production areas, workshops and warehousing areas.

For specific applications Tufcon Pumped Screed and Tufcon Speed Screed are available. Please refer to the Technical Service Department.

DESCRIPTION

TUFCON 80 is a four component cementitious flooring system formulated from carefully selected acrylic polymer, cement and specially graded high strength aggregates. The product is laid by trowel at between 8mm – 30mm thickness to provide a hardwearing, water resistant, cementitious floor topping.

ADVANTAGES

Fast cure	faster development of compressive strength than conventional cementitious screeds
Durable	high level of abrasion resistance, low maintenance costs
Chemically resistant	higher level of resistance to acids and alkalis than normal cementitious systems
Non-slip	provides non-slip surface for pedestrian and vehicular traffic
Proven performance	long standing job references

PHYSICAL PROPERTIES

Compressive strength	65.0 N/mm ²
Tensile strength	7.8 N/mm ²
Flexural strength	18.5 N/mm ²
Working life	1-2 hours
Open to light traffic	24 hours
Open to heavy traffic	48 hours
Full cure	28 days
Bond to Steel (blasted SA 2.5)	12.0 N/mm ²
Bond to Concrete	Concrete fails

(below 20°C these times will be increased)



CHEMICAL RESISTANCE

Tufcon 80 screed is resistant to a wide range of chemicals. Specific data is available on request from the Technical Services Department.

COLOURS

Tufcon 80 may also be overcoated with Conren epoxy coatings to extend the range of surface colours available, please refer to colour chart.

TEMPERATURE

Tufcon 80 should not be applied at temperatures below 10° C and above 40° C

INSTRUCTIONS FOR USE

TUFCON 80 high strength polymer screed can be used with most building structures. Its bond strength is enhanced by the use of WD Bonder and this allows the design of thin section screeds for refurbishment purposes. A 2-coat WD Bonder/Membrane is recommended, with the first coat being allowed to cure before application of the bonding coat. The Tufcon is laid wet onto the WD Bonder coat.

MIXING AND APPLICATION

Mix design (by weight): 1 part OPC: 2 parts sharp sand: 2 parts 3mm granite, 25% polymer on OPC. The Tufcon 80 mix is ideally mixed to semi-dry consistency in a creteangle or ribbon bladed screed mixer. The aggregates and OPC are blended first, followed by the addition of Conpol additive diluted in the gauging water. The mix is then laid with screeding rules onto the WD Bonder which must be tacky and the Tufcon 80 screeded off at the required thickness. A wood float and finally a steel trowel are used to close the Tufcon 80. If required a power-float finish can be achieved.

Tufcon 80 is supplied and installed by the Contracting Division of Conren Ltd.

COVERAGE & MIX SIZE

	<u>Mix in kg</u>
OPC	25kg
Sand	50kg
Granite 3mm	50kg
Additive Conpol	5ltr
Water to laying consistency	semi-dry

1 mix is equivalent to 6m² @ 10mm thickness

PRECAUTIONS

Tufcon 80 Should not be allowed to come into contact with skin and eyes or be swallowed. Avoid prolonged inhalation of solvent vapours. Cementitious and epoxy resin based products may act as skin sensitizers to some people. Gloves, goggles and barrier creams such as Kerodex antisolvent or Rozalex antipaint should therefore be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. Skin contamination with any of the products should be removed immediately with soap and water. In the event that mixed resin comes into contact with the skin, it must be removed before it hardens with a good quality resin removing cream, followed by washing with soap and water. Do not use solvent. If accidental eye contamination occurs irrigate with copious quantities of clean water and seek medical advice. If ingestion of any of the materials takes place, seek medical attention immediately. Do not induce vomiting.

DISPOSAL

The cleaning of the equipment with water should be carried out in such a way that the waste material is isolated and collected for disposal according to local statutory regulations.

STORAGE

All products to be stored under cover from inclement weather before and during application.

CONTRACTING SERVICE

Conren Limited offers a contracting service for the application of all Conren products. This facility is backed by a comprehensive technical and after sales service. We are able to contend with most problems in the field.

TECHNICAL SERVICE & QUALITY ASSURANCE

All information provided in this leaflet is based on results obtained from our own experience and test and is given in good faith. The user will be deemed to have satisfied himself independently of the suitability of Conren's products for his own particular purpose. We guarantee to replace, free of charge, any goods supplied by us which are proved to our satisfaction defective, but, as the application of these materials is necessarily beyond our control, we will not accept responsibility for any damage or loss arising wholly or in part from these materials. Except as herein provided, any express or implied condition, warranty, statement or representation, statutory or otherwise as to the quality of the goods is expressly excluded.

SPECIFICATION

Polymer reinforced screeds shall be Conren Tufcon 80.

All products to be applied in accordance with Conren's written instructions.

Conren Limited
Ditton Road
Widnes
Cheshire
WA8 0PG
UK

Tel: +44 (0) 151 422 3999
Fax: + 44 (0) 151 424 5053
e-mail: info@conren.com
web: www.conren.com