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Technical data sheet

December 2020

DPM One Coat Membrane & Primer

A one coat, low viscosity, solvent free, two part epoxy resin surface dpm, vapour suppressant and bonding agent and primer. Suitable for use in interior and exterior applications.



Features

- Single coat application
- Allows moisture levels up to 98% RH
- Use as primer or bonding aid for screeds
- Solvent free
- Rapid Curing
- Suitable for underfloor heating
- Easy trowel and roller application.
- Excellent chemical resistance
- Good substrate penetration
- Excellent Water Resistance
- One bucket with 2 compartments
- Cures in 6 hours at 20°C
- 5kg & 10kg



internal



external



under-floor
heating



flexible



lifetime
guarantee

The compound shall be DPM One Coat Membrane & Primer as manufactured by N&C Building Products Limited, 41-51 Freshwater Road, Chadwell Heath, Romford, Essex, RM8 1SP, England. Tel: 020 8586 4600 and shall be applied strictly in accordance with the manufacturer's current data sheets and instructions.





British Standard – Guidelines

All aspects of the installation must be in accordance with the requirements of BS 8204, BS 8203 (Installation of Resilient Floorcoverings) or BS 5325 (Installation of Textile Floorcoverings). Complies with EN standards and supplementary specifications.

Description

DPM One Coat Membrane & Primer is a one coat, low viscosity, solvent free, two component epoxy resin surface damp proof membrane, vapour suppressant and bonding agent and primer which is suitable for use in interior and exterior applications. When mixed to a homogenous blend and correctly applied it produces a durable surface membrane. It can be used in domestic, commercial and industrial areas. It is also suitable for use as a primer or bonding coat prior to the application of polymer modified/proprietary cementitious screeds.

It is suitable as a damp proof membrane on cementitious substrates which have high levels of relative humidity up to 98% (99.9% theoretical).

It is highly effective as a suppressant of residual moisture in concrete and sand:cement screeds and is widely used prior to the application of levelling screeds, smoothing underlayments and tile installations. It should not be considered as a dpm where hydrostatic pressure is a concern. This will require additional measures such as the application of external tanking membranes or pressure relief drainage systems.

Mixing

The DPM One Coat Membrane & Primer kits should be allowed to acclimatise to attain room temperature before mixing. The material functions best in room ambient temperatures of 10°C to 25 °C. Lower temperatures will raise the viscosity of the product whilst higher temperatures will significantly reduce the pot life. The floor temperature should also be monitored to ensure it is a minimum of 3°C above the dew point to avoid the presence of moisture on the surface which could hinder adhesion. The Nicobond Hygro Box and Thermo Probe have functions to carry out this test.

The two components are pre-gauged in two separate chambers within the pack. Using a screwdriver or similar pointed tool puncture the top surface of the lid and continue through to the base of the upper chamber. This will allow the contents to drain down to the lower chamber. Once the upper chamber is empty it can be removed. The two components in the lower chamber can all then be mixed using a variable mechanical mixer.

How much material?			
Applied Thickness	Approximate Coverage Per 5kg Bucket	Consumption Per 100m ² Area	Aggregate
Dense Concrete	13.5m ²	8 buckets	n/a
Screed	12.5m ²	8 buckets	n/a

The table should be used for guidance purposes only and all information given can be affected by the substrate texture and absorbency. The coverage given is based on a smooth non absorbent subfloor.

Application

DPM One Coat Membrane & Primer is applied by pouring the mixed material on to the substrate and spread an even coat using a 2mm x 5mm V Profile flooring notched trowel. Once applied, go over the surface immediately with a short pile roller to flatten out the trowel marks. Always pre-wet the roller before this operation to ensure that the applied coating is continuous and free from pin holes. The DPM One Coat Membrane & Primer should be applied at a minimum thickness of 250 – 350 microns.

Substrates

All surfaces must be sound, clean and free from any grease, oil, release agents or other curing compounds, dirt or any other contaminants which may affect adhesion. Any existing screeds or levelling compounds which are not moisture resistant should be removed prior to the application of the membrane. It is recommended to conduct a trial adhesion test if in any doubt. Do not apply DPM One Coat Membrane if the ambient or surface temperature is below 5°C.

Nicobond ScreedPro Underlayments

For guidance on using DPM One Coat Membrane with screed products refer to the individual ScreedPro Data sheet concerned.

Concrete & Sand/Cement Screeds

Concrete and sand/cement screeds must be dry and any laitance or surface treatments removed.

Sand / Cement screeds must have a moisture reading of less than 75% RH before work can begin.

Allow approximately 1 day per mm for drying of new screeds. It is also advised to prime sand/cement screeds to maintain a good flow and prevent air bubbles rising to the surface.

When applying to industrial floors, it is recommended to apply 2 coats of DPM. Allow the first coat to cure and then after applying the second coat liberally “blind” the surface with clean sharp. Once cured, brush off any loose sand prior to applying other toppings.

Power Floated Concrete

The surface should have been allowed to dry for at least six weeks. Power Floated Concrete can have a loose top layer and in some cases laitance once it has dried.

Mechanically remove any laitance or surface treatments. All dust and debris must be removed using a vacuum.

Under-floor Heating

Under-floor heating must be switched off 48 hours before and after application. When switching on start with a low temperature, gradually increasing it to its operating temperature at a rate of 5° C per day.

Movement Joints

DPM One Coat Membrane should not be used to bridge any existing Movement Joints, careful consideration should always be given to the function and location of movement joints at perimeters, intermediate bays, thresholds and between heated and non heated floor zones, these should be carried through to the surface per normal recommendations.



Priming

Priming may not be required. However, in certain circumstances it may be beneficial to prime. See table below.

Surface	Primer
Non Porous Substrates	Nicobond Primer (use neat – undiluted)

Technical Information

Specification	One Coat Surface DPM
Application Thickness Dry Film	250 – 300 microns
Working Life @ 20° C	45 - 60 minutes
Curing Time @ 20° C	Approx 5 – 6 hours
Curing Time @ 10° C	Approx 15 – 20 hours
Ready for Ceramic Tiles	When cured
Resilient floor coverings / LVT (Dependent on thickness)	When cured
Installation Temperature	Minimum 5°C
Storage Temperature	+5°C and 30°C
Service Temperature	-20°C to +80°C
Colour	Dark Grey
Packaging	5kg Dual Chamber pack

Technical Terms & Definitions

Porous (Permeable & Absorbent)

Porous surfaces are any materials having minute or narrow spaces through which liquid or air may pass. Examples of porous materials are quarry tiles (unsealed), unvarnished (unfinished) wood, concrete (not power floated), sand /cement screeds.

Non Porous (Impermeable & Non Absorbent)

Non porous surfaces tend to be thick, dense, and solid so that nothing can penetrate beyond its outer-most surface. Examples of non porous surfaces are solid plastics, metal objects, varnished wood, laminate counters, granite, powered floated concrete, glazed ceramic tiles, porcelain tiles, flooring grade asphalt, quarry tiles (sealed) and vinyl.

Fast Setting Screeds

Allow a faster setting time to achieve foot traffic within a shorter period. Such products may still require 12-24 hours to dry out completely (depending on thickness).

Fast Drying Screeds

Allow for the quicker installation of floorcoverings. Such products may be dry with in 4-6 hours (depending on thickness).

Tools

1.5mm or 2mm x 5mm V Profile flooring notched trowel.

Cleaning

Clean tools thoroughly with a solvent based cleaning fluid immediately after use. Once cured DPM One Coat Membrane is difficult to remove.

Shelf Life

6 months in unopened bags/bottles from the date of packing.

Storage

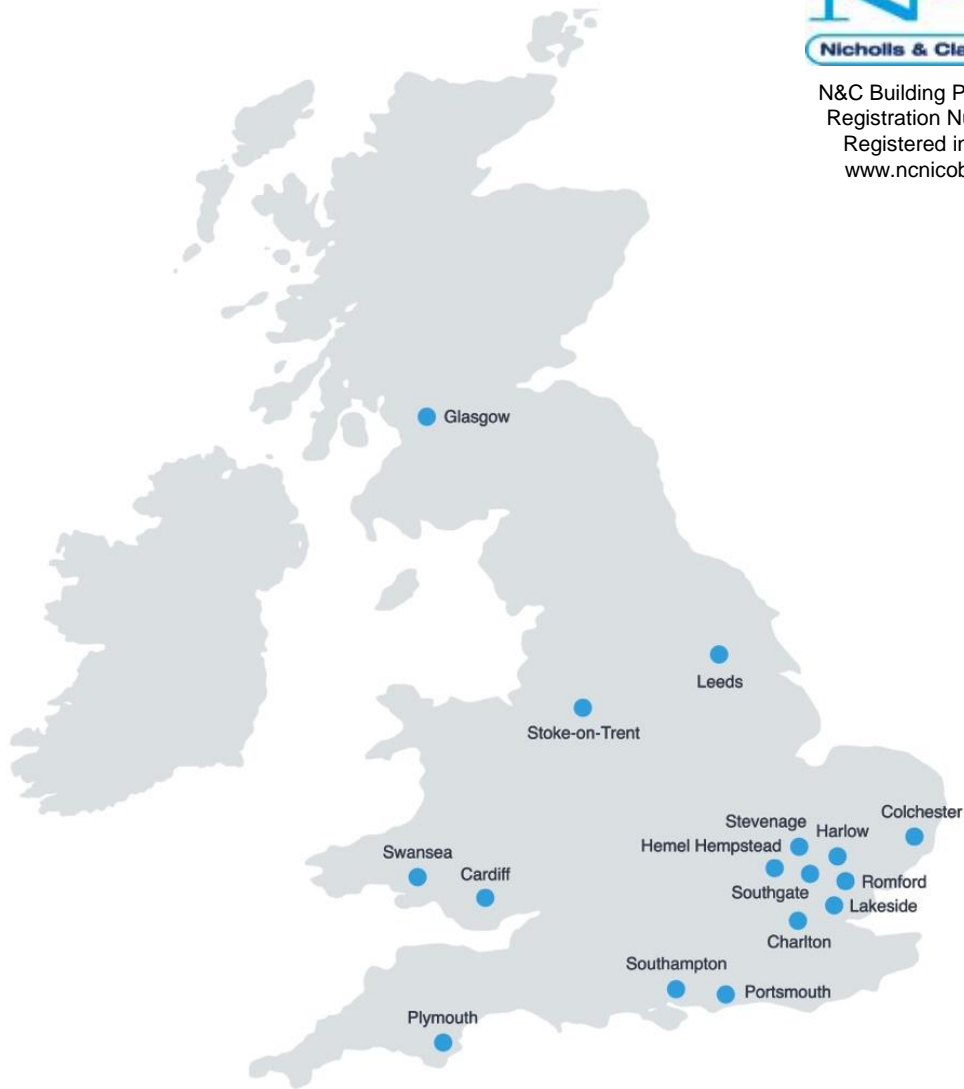
This product must be stored clear of the ground, under dry conditions, out of direct sunlight. Protect the liquid from frost. If allowed to freeze N&C Building Products cannot guarantee the performance of the product.

Health & Safety Advice

Wear suitable protective clothing, gloves and eye/face protection. Ensure the working area is well ventilated, keep containers closed when not being used and take precautions to guard against naked flames and smoking.

The relevant Material Safety Data Sheet can be obtained from the website or directly from N&C Building Products Ltd at the address below.

N & C Building Products Limited
 41-51 Freshwater Road
 Chadwell Heath
 Romford
 Essex RM8 1SP
 Tel: 020 8586 4600
 Fax: 020 8586 4646
 Email: technical@nichollsandclarke.com
 Web: www.ncnicobond.com



Distribution Centres, Trade Counters & Showrooms

N&C Building Materials
 41 - 51 Freshwater Road
 Chadwell Heath,
 Romford Essex RM8 1SP
 Tel: 020 8586 4600
 Fax: 020 8586 4646

C1 Cothill Trading Estate
 Plympton
 Plymouth PL7 1SR
 Tel: 01752 339724
 Fax: 01752 342746

B1 - B3 Sneyd Trading Estate
 Sneyd Hill, Burslem
 Stoke on Trent ST6 2PA
 Tel: 01782 575727
 Fax: 01782 575641

26 Colquhoun Avenue
 Hillington
 Glasgow G52 4BN
 Tel: 0141 880 1200
 Fax: 0141 880 1212

4 Waterloo Industrial Estate
 Flanders Road
 Hedge End
 Southampton SO30 2QT
 Tel: 01489 779700
 Fax: 01489 779701

3 - 4 Cardiff Trade Park
 Hadfield Road
 Cardiff CF11 8AQ
 Tel: 02920 390146
 Fax: 02920 224356

2 City Park Industrial Estate
 Gelderd Road
 Leeds LS12 6DR
 Tel: 0113 224 4630
 Fax: 0113 224 4631

Trade Counters & Showrooms

1A - 1B Alexander Place
 Lower Park Road
 New Southgate
 London N11 1QD
 Tel: 020 8361 6050
 Fax: 020 8361 4757

14 Meridian Trading Estate
 Bugsby Way, Charlton
 London SE7 7SJ
 Tel: 020 8269 5960
 Fax: 020 8269 5961

Units 10 - 11, 14 - 15
 Advent Way, Edmonton
 London N18 3AF
 Tel: 020 8586 4600
 Fax: 020 8586 4646

8 Ascent Park
 Edinburgh Way,
 Harlow Essex CM20 2HW
 Tel: 01279 621980
 Fax: 01279 621981

1 Cliffside Trade Park
 Motherwell Way,
 Lakeside, West Thurrock
 Essex RM20 3XD
 Tel: 01708 680180
 Fax: 01708 680181

2 - 5 Albarn Close
 Wyncolls Road
 Severalls Park, Colchester
 Essex CO4 9HY
 Tel: 01206 844 161
 Fax: 01206 845 878

9 - 11 McDonalds
 Business Park, Maylands
 Hemel Hempstead
 Hertfordshire HP2 7EB
 Tel: 0845 2606 025
 Fax: 0845 2606 026

16 Arlington Business Park
 Whittle Way, Stevenage
 Hertfordshire SG1 2BD
 Tel: 01206 849 322
 Fax: 01438 740 338

8D Pompey Centre, Fratton Way
 Southsea, Portsmouth PO4 8TA
 Tel: 02392 894599
 Fax: 02392 894598

5 Tower Court, St David's Road
 Swansea Enterprise Park
 Swansea SA6 8RU
 Tel: 01792 797337
 Fax: 01792 774019