



انظمة تشطيب
Finishing Systems

BOND COAT BC40

PRODUCT DESCRIPTION

Bond Coat BC40 is a two-component high-flex cementitious, acrylic polymer coating for protective and decorative applications. It provides a hard wearing, waterproof barrier against weather and chemical resistance against chlorides, diesel and petrol exposure and mild acid solutions.

It provides a uniform finish to new and existing structures that withstands light foot traffic.

Bond Coat BC40 can be applied by brush, roller or spray equipment. It is tested to effectively protect against a water pressure of 1.5 bar (up to 15 meters water head).

TYPICAL APPLICATIONS

Bond Coat BC40 is suitable to protect bridges, overpasses and similar concrete structures against the onset of concrete cancer.

Used also for waterproofing of roofs, bath rooms, swimming pools, balconies, terraces, building facades prior to cladding or similar applications.

It provides a uniform finish to new and existing structures that withstands light foot traffic.

FEATURES & BENEFITS

- Chloride barrier - Reduces the risk of carbonisation
- Minimum surface preparation
- Excellent adhesion and workability
- Waterproof and non-toxic

APPLICATION PROCEDURE

Surface preparation:

All surfaces must be clean, sound and free from all traces of dust oil, grease, mold release agent and curing compound. Substrate should be cured sufficiently that all shrinkage has occurred. Larger surface inconsistencies should be filled and leveled out in advance. Traces of moss, algae or other organic substances must be removed.

Mixing instructions:

Top up the 10 litre canister containing the bonding liquid with cool, clean and salt-free water and shake the content to allow thorough mixing. Fill into a clean mixing vessel of adequate size for further mixing.

Gradually add 20KG (one bag) of BC40 to the mixing vessel and mix to a uniform lump free consistency ideally with a mixing machine at slow speed of maximum 600 rpm.

After mixing allow the mixture to sit for 5 to 10 minutes.

Do not add any other material or change the quantity.

Disclaimer: All data is derived by approved testing methods and application experiments under laboratory conditions. Deviations are possible under practical conditions.

TECHNICAL DATA

COMPOSITION

Binder:	Grey cement White cement
Aggregates:	Graded sand (max. grain size 0.5mm)
Additives:	Organic polymers to improve consistency and workability

SUBSTRATES

Blockwork, concrete, fair-faced concrete, natural stone, red brick, render

APPLICATION

Mixing ratio:	Add one 20kg bag of BC40 to 10L of mixed bonding liquid
Rec. min. thickness	1.5mm
Max. thickness/layer	1mm

TYPICAL PROPERTIES

Appearance:	White or Grey Powder
Bonding strength:	>1N/mm ²
Colour:	Grey
Consumption per m ² :	0.57kg/mm ²
Coverage:	> 30m ²
Crack bridging:	>0.75mm
Hydrostatic pressure resistance:	No water penetration observed after 7 days (at 1.5 bar)

CONFORMITY

ASTM C33	ASTM C144
ASTM C150, Type 1	EN 14891:2013

FIRE CLASSIFICATION

A1, 100% noncombustible (EN 13501-1)



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APPLICATION PROCEDURE CONTINUED

Do not apply if the substrate temperature is below 5°C, schedule work for morning hours during extreme heat. If the surface temperature is higher than 40°C apply a primary coat of BC40.

The primary coat is made by adding additional cool clean fresh water to the BC40 mix and further mixing it to achieve a slurry-like consistence. The primary coat of BC40 must be followed by the first coat of BC40 whilst the primary coat is still wet.

BC40 can be applied by brush, roller or spray.

Recommended minimum application thickness:

- for general resurfacing 0.5-0.75mm
- for water proofing purposes 1.0mm
- for light foot traffic 1.5mm
- for moderate to heavy foot traffic 2mm

Ensure a clean surface for each following application coat.

Brush and Roller application:

Use a short bristled brush or a roller with a short nylon fleece and apply evenly ensuring the entire surface has been coated. Ensure that the entire surface is coated with the the first pass.

The second pass can be applied after 2 hours shall have a minimum of 0.5mm and be applied at right angle to the first pass. Two passes must be applied as a minimum.

Immediately following every application wash out the equipment and remove all spills and drips. Allow to cure for a minimum of 24 hrs.

Spray Application:

Bond BC40 can be applied by using a hopper gun. The minimum nozzle size must be 4mm. Spray at a distance of 30 cm to achieve evenly distributed material. Ensure that all equipment is thoroughly cleaned after and during the application. Minimum cover for each layer must be 0.5mm in thickness. Two passes must be applied as a minimum.

APPLICATION TEMPERATURE

- Do not apply if the substrate temperature is below 5°C or if frost is expected up to 48 hours after application
- Schedule work for morning hours during extreme heat
- If the surface temperature is higher than 40°C apply a primary coat of BC40
- See Application Procedure for more details

LIMITATIONS OF USAGE

- Rain is expected up to 24 hours after application on external surfaces
- In windy or dusty conditions
- Do not mix with any other material, use only cool fresh water at the recommended quantities
- The surface is not thoroughly cleaned and free from adhesion limiting defects
- The substrate has not sufficiently cured and the shrinkage process is still in progress
- The following paint coat must be approved or tested for compatibility

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TECHNICAL INFORMATION

Consult the DMC Technical Services Department for specific recommendations concerning all other applications. Visit the DMC website www.dmc-mix.com for additional information about products, systems and for updated literature.

SAFETY PRECAUTIONS

As with all building products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eye and skin immediately. If accidentally ingested, seek immediate medical attention. Use in well ventilated areas. Avoid inhalation of dust when using powdery products.

Wear suitable protective gloves, safety goggles and respiratory protection mask.

STORAGE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Shelf life is 9 months for all dry mortar products and 3 months for all liquids.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult DMC's Technical Services Department.

PACKAGING

– 20KG bag + 10L bonding liquid



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NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local DMC representative.

DMC reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY & CARE

All products originating from DMC Saudi Arabia are manufactured under conformity to the requirements of the quality, environmental and occupational health & safety standards of the above mentioned SASO, ANSI, ASTM, ISO and DIN EN norms.

DISCLAIMER

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labor involved in the application are beyond our control.

All data is derived by approved testing methods and application experiments under laboratory conditions. Deviations are possible under practical conditions. As all DMC technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

