NCB

DS.EN.04.50.06

A tintable non-cementious base coat for embedding reinforcing mesh and providing a mortar coat for Custom Brick

PRODUCT DESCRIPTION

NCB is a fully formulated water-based acrylic product. It is a highly flexible and crack-resistant base and mortar coat that is tintable to a wide variety of colors.

FEATURES & BENEFITS

FEATURE	BENEFIT
• Acrylic based	Excellent durability and adhesion
• Vapour premeable	Does not allow moisture build-up
• Flexible	Crack resistant
• Tintable	Extensive colour range avaliable

TYPICAL SUBSTRATES

- Dryvit Standard EPS (white)
- Dryvit LL EPS (grey)

PROPERTIES

Component drying times depend upon the air temperature, relative humidity and wind conditions. Drying time at lower temperatures or higher relative humidity, in particular during autumn and winter months, may be significantly longer. Protect all work from rain for at least 24 hours.

Approximately 24 h at + 20°C and 55% relative humidity. Under adverse drying conditions (low temperature and high relative humidity), NCB should be protected until it is fully through cured and hard.

USES

As a base coat for the embedment of reinforcing mesh on EPS insulation boards as part of the Dryvit EWI Systems. As the mortar coat for use with the Custom Brick Finish System.

COLOUR

NCB may be tinted to provide a coloured base or mortar coat in in ten standard colours with custom colours also available.

PACKAGING

NCB is shipped in 23.0 kg pails.

COVERAGE

3.0-3.5 kg/m^2 equivalent to 6.6 to 7.7 m^2 per pail for embedding Standard Plus meshes.
1.3-1.6 kg/m^2 equivalent to 14.4 to 17.7 m^2 per pail when used as a mortar coat.

All coverages are approximate and depend upon substrate profile, details and individual application technique. Estimates take no account of wastage

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PREPARATION

The surface must be fully dried and free of surface contaminants such as dust, dirt, efflorescence, peeling paint, sealers, etc., prior to applying the base coat mortar.

Base Coat: Prior to starting reinforcing mesh embedment, the surface of the EPS boards shall be inspected for surface degradation (discolouration) due to weathering as well as flatness using a minimum 2.4 m straight edge. Rasp any visible discolouration, irregularities or out-of-plane board joints to provide a uniform and smooth surface. All EPS dust and loose beads shall be removed prior to base coat application.

Mortar Coat: NCB may be used as the mortar coat for the Custom Brick application. The base coat shall have cured a minimum of 24 hours and shall be dry, clean and free of any contaminants prior to applying the Custom Brick NCB Mortar Coat.

MIXING

Some settling of the pail products may occur during shipping. Thoroughly mix with a slow speed drill (450-500 rpm) and paddle until a uniform workable consistency is attained. A small amount of clean potable water may be added to adjust workability.

When the NCB is contained in an open pail, there is no working time limit. Small amounts of water can be added continuously to the pail to adjust the workability. Partially used containers of NCB, when tightly sealed, may be used the next day.

APPLICATION METHOD

Base Coat –

Standard Plus and Intermediate Meshes
Using a stainless steel trowel, apply the mixed NCB on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of 1.5 mm. The reinforcing mesh may be installed either vertically or horizontally. Immediately place the reinforcing mesh against the wet NCB mixture and with the curve of the mesh against the wall, trowel from the centre to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Trowel smooth to a uniform thickness slightly more than the thickness of the reinforcing mesh. Allow this layer to take up until firm to the touch and then trowel a second tight coat over the first to fully cover the reinforcing mesh. The result should be such that the reinforcing mesh is approximately centred within the base coat thickness. Do not allow the first pass to completely dry prior to the second pass application or an excessive amount of NCB will be necessary to fully coat the wall surface.

Note: The reinforcing mesh shall be continuous at corners and mesh edges lapped not less than 65 mm. Do not lap the reinforcing mesh within 200 mm of a corner.

Panzer Meshes
Using a stainless steel trowel, apply the mixed NCB on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of 3.0 mm. Immediately place the reinforcing mesh against the wet NCB mixture and with the curve of the mesh against the wall, trowel from the centre to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Continue in the same manner until the entire area requiring Panzer mesh is covered. Do not lap the Panzer mesh. Adjacent pieces are to be tightly butted. Allow the Panzer base coat to cure a minimum of 24 hours prior to applying one of Dryvit's Standard Plus reinforcing meshes, see application instructions above.

For more details refer to the Dryvit reinforcing mesh data sheet and to Dryvit Application Instructions.

Mortar Coat
With a stainless steel trowel, apply NCB over the smooth dry substrate. Apply the Mortar Coat to a uniform thickness not exceeding 1.6 mm to provide a smooth and flat surface. Allow to dry a minimum of 24 hours prior to adhering Custom Brick templates.

DRYING TIME

NCB dries and develops physical properties by the evaporation of water. Prior to finish application leave approx. 24 h, at +20°C and 55% relative humidity. Drying time at lower temperatures or higher relative humidity, in particular during autumn and winter months, may be significantly longer.

STORAGE

NCB must be stored at a minimum of 4°C in tightly sealed containers protected from weather and out of direct sunlight.

CAUTION AND LIMITATIONS

Apply in dry conditions. At time of application and for the following 24 hours air and substrate temperatures must not drop below + 13°C or rise above + 30°C. The product must be protected against direct sun and windy conditions so sheeting the façade or the scaffold is advised to achieve this. Surrounding windows, window cills etc must be properly protected during application and early curing.

While drying, the mortar coats must not be exposed to the formation of dew on their surfaces. This could lead to localised delamination and the formation of blisters. Before applying Dryvit finish to the mortar coat, ensure that the surface is thoroughly and uniformly dry. Particular attention must be paid to areas of mesh overlap where the mortar base coat is thicker and will take longer to dry.

Application of finish to a mortar coat that has not completely dried will result in a mottled appearance and possibly blistering. Do not use NCB as a general adhesive or to adhere special shapes to cured NCB base coat.

NCB is not recommended to embed reinforcing mesh at EPS edges that will receive sealant.

The rate of drying is significantly retarded at temperature below 10°C and at RH > 80%.

CLEANING

All equipment must be washed with clean water immediately after use and while the finishes are still wet. Disposal must be in accordance with local and national legislation and must not be emptied into drainage systems.

HEALTH AND SAFETY

Refer to the Application Instructions and the product Safety Data Sheet.

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