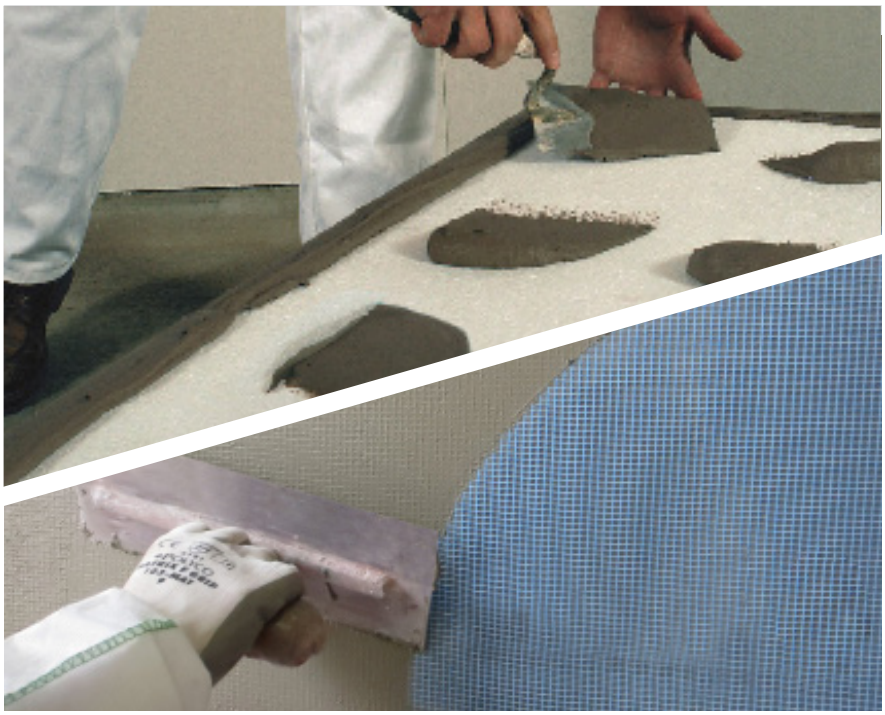
GENESIS

DS.EN.04.50.03

Acrylic-modified, fibre-reinforced adhesive, base, texture and levelling coat



PRODUCT DESCRIPTION

Genesis is a fibre reinforced, 100% acrylic-based product which, when mixed in a 1 to 1 ratio by weight with Portland cement, provides a high-build, exceptionally easy to trowel adhesive, base coat, texture or levelling coat. It is used in the Dryvit Outsulation, Cement Board MD and the ACR range of systems.

FEATURES & BENEFITS

FEATURE	BENEFIT
• Acrylic based polymer	Excellent durability and adhesion to EPS and common substrates
• Fibre reinforced	Crack resistant
• Versatile	Mix to a variety of working consistencies
• Special filler blend	Excellent trowelling properties.

TYPICAL SUBSTRATES

- Dryvit Standard EPS (white)
- Dryvit LL EPS (grey)
- Concrete
- Brick
- Lightweight Block or aerated autoclaved concrete
- Lightweight steel or timber framed structures using appropriate sheathing boards
- Sheathing boards (Direct render) - various

USES
As an adhesive for bonding both Dryvit Standard and LL Square Edge EPS insulation boards to an approved substrate and to embed Dryvit Reinforcing Mesh as part of the base coat of Dryvit's systems. It may also be used to spot mechanical fasteners and as a high-build, crack-resistant, cementitious levelling coat up to a maximum 6.5 mm to skim rough masonry and to fill small voids in cementitious substrates.

PACKAGING
Genesis is shipped in 23.0 kg pails.

COVERAGE
(MIXED PRODUCT (GENESIS + CEMENT)
21-23 m² for embedding Standard Plus meshes.
18-20 m² for ribbon and dab adhesive.
20-22 m² for notch trowel adhesive.
10-11 m² for base coat and ribbon and dab adhesive.

Note: The actual coverage largely depends on the type of surface, its preparation and flatness, the method of application and the experience of the contractor.

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SUBSTRATE PREPARATION

Surfaces must not be below 4°C or painted and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds. Prior to starting reinforcing mesh embedment, the surface of the EPS boards shall be inspected for surface degredation (discoloration) due to weathering and flatness using a minimum 2.4 m straight edge. Rasp any visible discolouration, irregularities greater than 1.5 mm 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.

MIXING

Thoroughly premix the Genesis liquid using a slow speed drill (400–500 rpm) and paddle. Pour half of the freshly blended Genesis into a clean plastic container and to each half pail of Genesis mix 1:1 by weight of fresh, EN 197-1 type CEM I or CEM II Portland cement. To facilitate mixing add up to 0.8 litres of clean potable water as required during mixing. Allow the mixture to set for 5 minutes. Re-mix and temper by adding a small amount of water to achieve the desired workability. Do not over water the mixed Genesis as this will degrade the performance and durability of the product.

Summary

23.0 kg pail - 11.5 kg Genesis liquid mixed with 11.5 kg Portland cement and total maximum of 0.8 ltr water per half pail of Genesis.

APPLICATION CONDITIONS

At the time of application and during the next 24 hours, air and substrate temperature may not drop below +5°C. The Genesis adhesive coat should be protected against water during this time. Avoid work in direct sunlight and windy conditions.

APPLICATION METHOD

Adhesive

For back wrapping at system terminations a ribbon of Genesis shall be applied to the substrate and Detail mesh embedded into the wet mixture and leaving sufficient mesh to wrap around the board and a minimum 65 mm onto the face of the insulation board. Keep the mesh which is not to be embedded clean.

Apply Genesis to the back of the insulation board, not to the substrate. The Ribbon and Dab method is usual for fixing insulation to solid substrates with a ribbon around the entire perimeter and eight dabs placed on the interior area of the insulation board. The notched trowel method is usual for fixing insulation to sheathing board and flat substrates and is created using a notched trowel to form adhesive beads running vertically when the insulation board is placed on the wall.

Position the board horizontally on the substrate and press the board gently to the substrate and slide it into position. Apply firm pressure over the entire surface of the insulation board to ensure uniform contact and high initial grab. Using a margin trowel, clean the insulation board edges of any Genesis mixture. Ensure that the insulation board joints are butted tightly and are level and flush. Do not allow Genesis to remain in board joints since material in board joints can result in cracking. Once the insulation board and Detail mesh are in place, wait a minimum of 24 hours prior to working on the surface of the insulation board to prevent any movement which may weaken the bond of the adhesive mixture to the substrate.

Lamella Stone Wool fire barriers must be cut or constructed from Stone Wool HD Slab and be a minimum 100 mm high x total thickness of external wall insulation. Genesis shall be applied in a continuous coat to the lamella face of the barrier and installed with firm pressure to the substrate to ensure there are no gaps between the barrier and substrate.

STORAGE

Genesis must be stored at 4°C or above 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 + 5°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. The Genesis mixture shall not be used to adhere EPS directly to wood substrates. For base coat applications over EPS, do not apply the Genesis mixture in thicknesses exceeding 3.2 mm.

CLEANING

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

HEALTH AND SAFETY

Refer to the Outsulation or ACR System Application Instructions and the product Safety Data Sheet.

dryvit®

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APPLICATION METHOD CONTINUED

Base coat

Standard Plus and Intermediate 370 meshes

Using a stainless steel trowel, apply the mixed Genesis 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 Genesis 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 centered 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 Genesis will be necessary to fully coat the wall surface.

The reinforcing mesh shall be continuous at corners and mesh edges over lapped not less than 100 mm or 65 mm when overlapping with the back wrap mesh. Do not lap the reinforcing mesh within 200 mm of a corner.

Panzer meshes

Using a stainless steel trowel, apply the mixed Genesis 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 Genesis 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. Caution: Adjacent pieces are to be tightly butted, do not lap the Panzer mesh. Allow the Panzer base coat to cure a minimum of 24 hours prior to applying Dryvit's Standard Plus reinforcing mesh, see application instructions above.

Skim coat over concrete or masonary

Use a stainless steel trowel to apply the Genesis mixture on the substrate at a maximum thickness of 6.5 mm.

DRYING TIME

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.

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