

Wall Protection Application Guidelines

Gradus Grip WGE1 Wall Cladding Adhesive

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Site conditions vary - to ensure that this product is suitable and to confirm that this data sheet is current please contact our Technical Support department.

Introduction

Gradus Grip WGE1 is a medium open-time flexible adhesive with excellent grab characteristics that make it suitable for bonding Gradus SureProtect Endure® SPE 15 Wall Cladding in internal environments. WGE1 is a one-part reactive adhesive which relies upon atmospheric moisture to cure.

Precautions

Temperature – adhesive must be applied onto substrates which are above 5°C and remain constant whilst curing takes place. Optimal results are obtained by installing at the intended operating temperature. WGE1 has been tested and approved to give satisfactory bonding with SureProtect Endure SPE15 to ensure a fire performance to EN 13501-1 of Class B Fire / s3 Smoke. However, use of other Wall Cladding products should be supported by a guarantee from the supplier for satisfactory bonding and to ensure strict fire performance is being maintained.

Surface Preparation

Prior to application, ensure that all surfaces are smooth, sound, clean and free of oil/grease, adhesive residues, dust and contamination. If a wall repair is required, ensure that all manufacturer's instructions are followed to ensure the repair material is ready to provide a strong surface. The Wall cladding should be clean and free from contamination such as oil, grease, dust etc. that may impair adhesion.

Adhesive Application

The adhesive can be applied most efficiently by means of a suitable applicator gun & Grunfeld nozzle. One multi-hole nozzle is supplied with each box of 15 WGE1 cartridges. Apply the adhesive to one surface only, either the wall or the sheet

If a gun is not available, then it can be applied using a B1 Trowel

	<p>One multi hole (Grunfeld) nozzle supplied with each box of WGE1 (15 x 650ml tubes)</p> <p>Extra Nozzles can be purchased – Part Number WGE NOZZLE</p> <p>We recommend that you allow 1 NOZZLE for every 10-15 wall cladding sheets</p> <p>Please note that the nozzle can clog and block up when not in constant use.</p> <p>Cover the adhesive nozzle with cling film or similar when not in use. NB the maximum opening time at 23°C and 50% RH is 30 minutes per tube</p>
<p>Part Number - WGE NOZZLE</p>	

Adhesive Application Pattern – SureProtect Endure Wall Cladding Panel

Ensure there is adequate coverage of adhesive to the edges of the Wall Cladding. This can best be achieved by applying the adhesive in long straight lines parallel to the short edges of the sheet**. The outer bead of adhesive should be no more than 10mm from all edges. Cover the entire area of the sheet with long straight beads keeping overlap of applied adhesive to a minimum. For intricate areas it is possible to spread the adhesive using a B1 trowel.

****Do not snake / zig zag the adhesive beads, as this can significantly reduce bond strength** – always apply in straight (linear) beads. Thicker beads take longer to cure but always ensure the recommended coverage of adhesive is applied for the installation being undertaken. Ensure the beads are continuous and not broken. This will determine the speed to apply the glue and will also depend on the ambient temperature.

Adhesive Application Pattern – Direct to the wall

Ensure there is adequate coverage of adhesive to the edges where the Wall Cladding will be positioned. This can best be achieved by applying the adhesive in long straight horizontal lines starting with the upper and lower lines of where the Wall Cladding will be installed. The outer bead of adhesive should be no more than 10mm from all edges of where the sheet will sit. Complete the remaining area of the wall with long straight beads which can be applied vertically if it gives better spread. Keep overlap of applied adhesive beads to a minimum. For intricate areas it is possible to spread the adhesive using a B1 trowel.

Bonding

To aid the cure and to accelerate the bond it is possible to apply an atomized mist of water to either the Wall Cladding or the wall. This may become necessary in particularly dry and/or hot environments and is recommended especially for non-absorbent surfaces. If it is intended to use a jointing trim these items should be cut to the appropriate length using a utility knife and slid onto the sheet prior to being offered up to the wall. Once the Wall Cladding has been offered up to the wall it is necessary to spread the beads of the adhesive to give full adhesive contact between the Wall Cladding and the substrate by using a roller applied at an appropriate force.

Where adjacent Wall Cladding sheets are installed without trims, care should be taken to avoid pooling of adhesive because a recess is needed for the 2-3mm bead of sealant between sheets to allow for expansion. In such situations the sheets should be butted up together and slid apart to leave the appropriate gap.

Caution: When spraying the wall with water avoid getting water near or in an electrical outlet.

Once finally positioned, the Wall Cladding must not be disturbed or moved during the 24-hour curing period of the adhesive. Where Wall Cladding is being applied to a wall which is not completely flat, additional temporary mechanical fixing may be required e.g., leaning a heavy vertical weight against the Wall Cladding

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Cleaning

Remove any excess wet adhesive from surfaces with a clean damp cloth.

Technical Information

Colour	Beige
Consistency	Paste
Open Time @ 23°C and 50% RH	Maximum 30 minutes

Coverage

Tube Size	Spreader	Coverage
1kg/650ml	Grunfeld Head with Electric Gun	Minimum 550gm* sq metre (1.5 tubes per sheet)

*More adhesive may be required for uneven wall surfaces

Note – Coverage rates will depend on the condition and absorbency of the substrate

Application method

	<p>Electric gun or similar</p> <p>Must be compatible with 300ml cartridge, 650ml sausage pack and bulk sealant. A min 5A battery is required NB we recommend that you do not put the setting on maximum</p>
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Packages

1kg/650ml composite foil cartridges
15 cartridges per carton

Storage & Shelf Life

Store between 5°C and 25°C. Protect from frost.
18-month shelf life in unopened cartridges stored under good conditions.

Gradus Grip WGE1 Recommended adhesive product for SureProtect Endure SPE 15 PVC-u Sheet

The adhesive stated has been tested and approved to give satisfactory bonding of SureProtect Endure® to the substrate and to ensure fire performance EN 13501-1 of Class B Fire / s3 Smoke.