

GranolImpact®

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Resource Code 84943 - Line
June 2007

DESCRIPTION

- GranolImpact® is a pure acrylic, high performance elastomeric coating able to be applied in a variety of styles by roller or spray.
- Approved to APAS 0118/2 & APAS 0117/3.

PRINCIPAL CHARACTERISTICS

- Suitable for interior or exterior use.
- GranolImpact® systems have good adhesion to a wide variety of substrates and have excellent resistance to mould and fungi.
- As an acrylic membrane, the vapour permeability of GranolImpact® is carefully controlled to form a barrier to external moisture, while allowing vapour in the substrate to escape. It is, however, not suitable for situations where hydrostatic pressure exists.
- GranolImpact® also forms the final topcoat of many other Granosite systems, extending the performance and overall protection of the system applied.
- GranolImpact® is water-based for applicator safety and ease of use.

COLOURS AND GLOSS

- Bases may be tinted as required. Refer to the Wattyl colour range including the authentic heritage range. May also be tinted to other competitor colour ranges through the Wattyl tinting system.
- It is recommended that, for exterior application, the light-fastness of the chosen colour be confirmed before ordering.
- Satin
- Colours of Light Reflectance Values (LRV) of less than 40% shall not be used on substrates as specified in NZBC Acceptable Solution E2/AS1 Section 2.4 Cladding Finish Colours. For other substrates Colours of Light Reflectance Values (LRV) of less than 40% may result in unacceptable thermal movement and we caution the use of darker colours.

BASIC DATA AT 25°C

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|---------------------------------|--|--|--|
| • Surface Dry | Four (4) hours | | |
| • Recoat | Six (6) hours | | |
| • Hard Dry | Seven (7) days | | |
| | All figures are quoted at 25°C and 50% Relative Humidity. Drying will take longer at lower temperatures or higher relative humidity. | | |
| • Density | 1.33 Kg/L | | |
| • Consistency | Thick, creamy paste. | | |
| • Texture | Low Profile
(10-12mm pile roller) | High Profile
(Fine black texture roller) | Airless
(Airless spray gun) |
| • Coverage per coat | 0.18 L/M ² (5.5M ² /L) | 0.50 L/M ² (2.0M ² /L) | 0.33 L/M ² (3.0M ² /L) |
| • Wet Film Thickness (per coat) | 180 microns (approx) | 500 microns (approx) | 330 microns (approx) |
| • Dry Film Thickness (per coat) | 85 microns (approx) | 240 microns (approx) | 160 microns (approx) |
| • Moisture Control | Excellent, however the coating must not be subject to hydrostatic pressure. | | |
| • Water Ponding | 50.5 - Excellent. (mg of water passed after 50 hours at 25°C and 50% relative humidity) | | |
| • Water Swelling | 39.6. (ASTM D-471 % increase weight by weight) | | |
| • Water Permeability | Passed (AS 2904 Appendix G - 6 metre head of water) | | |
| • Vapour Permeability | 12.6 (gm/ m ² /24 hrs) DIN 52615 (at 500um dry film build) | | |
| • Vapour Transmission | 25.0 (gm/m ² /24hrs) ASTM-E-96 (at 360um dry film build) | | |
| • Carbon Dioxide Diffusion | Rb =459.6m (Engelfried Method) | | |
| • Chloride Ion Diffusion | 1.3 x 10 ⁻⁹ cm ² sec ⁻¹ (Taywood in-house method) | | |
| • Abrasion Resistance | 5,000 cycles - Film integrity excellent (AS 1580 459.1) | | |
| • Salt Spray | No effect (AS 2331.3.1) | | |
| • Elongation | 524% (ASTM D-412 at 25°C) | | |
| • Tensile Strength | 36.4 kg/cm ² (ASTM D-412 at 25°C) | | |
| • Crack Bridging | 3.65 (Crack width bridged per unit dry film thickness) | | |
| • Dirt Pick-Up | 1 - on a scale of 0 - 5 where "0" is no dirt retained (AS 1580 481.1.4 12 months) | | |

BASIC DATA AT 25°C - continued

- **Early Fire Hazard (AS 1530.3)**

Ignitability	(0-20)	11
Spread of Flame	(0-10)	0
Heat Evolved	(0-10)	2
Smoke Developed	(0-10)	3
- **Thinning** Not required, but may be thinned with up to 10% water for cutting in and spray applications. Thinning rates for airless spray will vary according to the brand of equipment used.
- **Clean up** Thoroughly clean equipment with water.

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURE

- GranolImpact® may be applied to off-form concrete Class 2 (AS 1510) or equivalent, cement rendered fair-faced flush-jointed concrete block and brickwork (common, clay, concrete), CFC, tilt-up and pre-cast concrete and paperfaced plasterboard. Make-good of the substrate is necessary if substrate imperfections are to be eliminated. Please refer to separate Datasheets for Grano Adhesive Mortar® (G1.06NZ) or Grano Modified Render® (G1.10NZ), GranoPatch® Smooth (G1.04NZ).
- Surface Preparation is the responsibility of the Builder, Renovator or Main Contractor and the Applicator. To achieve the indicated performance, application must be carried out according to Watty's recommendations.
- Ensure the surface is clean and dry. All substrates must be free of dirt, dust, grease, oil, mould release agents, bondbreakers and any other contaminants that may interfere with adhesion. Fresh concrete substrates should be left for a minimum of 28 days before coating; fresh plaster surfaces should be left for a minimum of 14 days. There must be less than 15% moisture Wood Equivalent in the surface at the time of coating to ensure optimum coating performance.
- Application **should not** be carried out if the air temperature or the substrate temperature is below 10°C or above 35°C. The temperature must not fall below 10°C during the drying process.
- Freshly applied material must be protected from frosts and rain for a minimum of forty eight (48) hours.
- Not suitable for roofs, ponds etc or walk on surfaces.
- For specific substrate preparation, see relevant specification sheets.

INSTRUCTIONS FOR USE

- Stir contents thoroughly with a power stirrer before use.
- GranolImpact® is normally applied in a **two (2) coat** application by roller to achieve the desired texture finish or the specified dry film thickness to a correctly prepared and primed surface. GranolImpact® may be applied as a single finish coat on texture finishes over correctly prepared and primed surfaces by airless spray; however care must be taken to ensure an even overall finish is obtained.
- **AIRLESS GUN SETTINGS**

Tip	519 or 521	Pressure Setting	2500 to 3000 psi
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SAFETY DATA

- **Caution** Provide adequate ventilation during use.
- **Spills and Disposal** Do not allow spilt material to enter drains or other watercourses. Absorb spills with sand or other inert material. Unwanted paint should be kept in a sealed container, such as an empty paint can, and disposed of via special waste collection services. Check with your local Council regarding the disposal of empty paint containers
- **M.S.D.S.** A Material Safety Data Sheet (M.S.D.S.) is available on request.
- **First Aid**

If swallowed **do not** induce vomiting. Give plenty of water to drink. Contact a doctor or the Poisons Information Centre. Phone 0800 764766 (New Zealand).

If in eyes, hold eyes open and flood with water for at least 15 minutes. Contact a doctor if any irritation occurs.

If on skin remove contaminated clothing, wash skin thoroughly with soap and water or a proprietary skin cleanser. Do not use solvents.

If affected by inhalation remove person to fresh air. If breathing difficulties persist or occur later, contact a doctor.

ADDITIONAL DATA

- Available in 15 litre containers.
- Containers must be secured and stored upright during transit.
- Containers must not be exposed to excessive heat or cold.
- Storage must be under cover, away from direct heat, freezing and moisture, in well-sealed containers.
- It is recommended that application be carried out by a skilled applicator, who is totally conversant with the Granosite products and systems, to validate full material warranty conditions.
- For further information, contact the Watty Information Helpline. Phone 0800 735551(New Zealand).

1. This information is provided with respect to the listed Watty products. Watty recommends that:
(a) you review the Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS) before you use or handle the product; (b) the product be used only in accordance with the information provided by Watty; (c) the product be transported, stored and handled in accordance with the information on the MSDS and relevant TDS; and (d) you thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product.

2. The information in this technical data sheet was prepared using information gathered during product development. While Watty endeavours to update this information and maintain the accuracy and currency of its contents, Watty cannot guarantee that the information provided is wholly comprehensive.

3. Watty recommends that you conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely in using and handling the product. If you require further information please contact your nearest Watty Office.

4. To the full extent permitted by law, Watty's liability for breach of a condition or warranty implied into the contract for sale between Watty and you by law is limited at Watty's election to: (a) the replacement of the product; or (b) payment of the cost of replacing the product.