

RENOFLEX DUO

Oranje

Product Information Sheet

Product Description:

A high quality solvent-free two-part epoxy resin for timber repairs, to be used in conjunction with Renofix Oranje Quality primer as part of the Renoflex Repair System.

Product Use:

For the permanent repair of interior and exterior timber substrates, including windows, doors, fascias, posts and cladding, providing a cost-effective alternative to timber replacement.

Product Benefits:

Ideal for interior and exterior timber repairs
 Fills any size holes and can be used with timber splices
 Does not slump when applied to vertical surfaces
 Can be modelled into any shape or profile of existing joinery
 Once cured can be planed, drilled and screwed just like timber
 Does not shrink or swell
 Cured resin forms a permanent repair
 Cured resin can be over-painted with traditional paint or stain systems
 Contains no solvents
 Easy clean up
 Repair resin has a two-year shelf life from date of manufacture

Technical Information:

	Component A	Component B	Mixed Product
PRODUCT PROPERTIES			
Tube Size (Volume)	132,5 ml	132,5 ml	265 ml
Recommended Application Temperature			Operating Temperature Between 2° and 20°C
Product Cure Time (@ 20°C)			4 hours (16 hrs @10°C)
Chemical Composition	Modified Epoxy Resin	Modified Amines	Epoxy Resin
Consistency	High Viscosity Paste	High Viscosity Paste	High Viscosity Paste
Product Colour	Orange	Yellow	Light Brown
Product Density	± 1.24 kg/dm ³	± 1.26 kg/dm ³	± 1.25 kg/dm ³
Product Solids Content	100%	100%	100%
Product Flashpoint	>61°C	>61°C	N/A
Peak exothermic temperature according to ASTM D 2471			82°C

MATERIAL PROPERTIES		
E-modulus (Pull) (Tensile strength test)		15,0 N/mm
Pulling Strength according to NEN 527-1 (Tensile strength test)		10.0 N/mm ²
E-modulus (Pressure) (Compression Strength test)		680 N/mm ²
Pressure strength according to ISO 604 (Compression Strength test)		80.0 N/mm ²
Hardness (Shore D) according to Din 53505 (Surface hardness)		70

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HEALTH & SAFETY

- Always consult the product Material Safety Data Sheet prior to use .
- Epoxy resins can cause skin irritation – therefore avoid skin contact by always wearing good quality nitrile gloves when mixing and applying the material.
- Wear suitable protective overalls/clothing when working with the material.
- To avoid skin contact from contaminated clothing work cleanly and hygienically
- Use Renovaid Wipes to remove unwanted resin deposits
- All of the Renovaid Repair products are solvent-free, therefore no respiratory protection is required when mixing and applying the material.
- Cured product is inert and harmless, however always use a dust mask (P2) when sanding to avoid inhalation of both epoxy and timber particles.
- Dispose of empty and cleaned tubes through normal disposal method.
- Treat non mixed residues as chemical waste, therefore dispose of accordingly.
- Do not burn liquid or cured resin in open fires as harmful fumes may result.
- Do not empty into drains, watercourses or access routes to septic tanks as epoxy resins are toxic to aquatic organisms.
- Keep all products out of reach of children and animals.
- The product is exempt from transport restrictions in relation to the Carriage of Dangerous Goods Regulations (ADR)

SUBSTRATE PREPARATION

- For detailed instructions, refer to the Working Method .
- In order to fully expose decayed areas, remove paint from timber substrate.
- Ensure all decayed or damaged timber is completely removed back to bright, sound timber (the Renovaid Router machine is ideal for this)
- Remove any remaining coating system to at least 10mm from around the area to be repaired
- Use the Renovaid Moisture Meter to check the average moisture content of the timber substrate is below 18%
- Ensure all surfaces are clean and dry
- Sand the prepared surface to remove any wood fibres using a good quality silicon carbide or aluminium oxide abrasive paper
- Ideally carry out Renofix and Renoflex product applications immediately after preparation has been completed.

PRODUCT APPLICATION

Application conditions:

- Product should only be used when operating temperatures are between 2 and 20°C.
- Product should not be applied in rain or fog unless protected from direct wetting. The maximum relative humidity should be 85% (measure using a Hygrometer) and the timber substrate temperature should be at least 3°C above dew point.

Application Tools:

- Renovaid Nitrile Gloves
- Renovaid Mixing Cup and Brush (for Renofix)
- Renovaid Mixing Plate
- Renovaid Double Dosing Pistol
- Renovaid Application Spatulas
- Renovaid Wipes

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Application Instructions:

- Prior to mixing and applying Renoflex resin, prepared surfaces must be primed using Renofix Oranje primer. Allow primer to penetrate for a minimum of 20 minutes.
- Cut tops off Renoflex Component A and Renoflex Component B tubes evenly, and keep caps.
- Place Renoflex Component A and Renoflex Component B tubes into the double dosing pistol and dispense enough product for selected repair onto mixing plate. Re-cap tubes after dispensing.
- Mix using the Renovaid application spatulas to achieve an even colour consistency. Do not thin the mixed material with solvents or diluents. Use mixed product within 30 minutes.
- In order to ensure good surface contact with the Renofix primed surface, firstly apply a thin layer of Renoflex with a Renovaid spatula. Then, using the Renovaid spatula, slightly over-fill the repair and remove excess material.
- Allow to fully cure (Renoflex Oranje will cure in 4 hours at an average temperature of 20°C, and 16 hours at 10°C).
- Once cured, sand using a good quality silicone carbide or aluminium oxide abrasive paper.
- If necessary, correct any surface irregularities with Renovaid Renofast (a fast-curing, solvent-free, two-part epoxy resin for spot repairs and surface filling. Once cured (Renofast will cure in 30minutes at an average temperature of 20°C), spot repairs should be sanded with a good quality silicone carbide or aluminium oxide abrasive paper.

CLEAN UP

- All tools should be cleaned immediately after use, using the Renovaid Wipes. Dispose of used wipes in a suitable manner.

STORAGE

- Always re-cap tubes immediately after use and for storage purposes
- Store in dry conditions at temperatures between 5 and 30°C.

SHELF LIFE

- Renoflex Resin has a shelf life of 24 months after the production date (shown on the bottom edge of the tubes).

PAINTING

- All paint systems can be used after curing and sanding.

FOR MORE INFORMATION:

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