

# RENOFLEX

## 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
<b>PRODUCT PROPERTIES</b>			
Tube Size (Volume)	300ml	300ml	600ml
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 <sup>3</sup>	± 1.26 kg/dm <sup>3</sup>	± 1.25 kg/dm <sup>3</sup>
Product Solids Content	100%	100%	100%
Product Flashpoint	>61°C	>61°C	N/A
Peak exothermic temperature according to ASTM D 2471			82°C

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

# RENOVAID PROFESSIONAL REPAIR SYSTEMS

## 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

# RENOVAID PROFESSIONAL REPAIR SYSTEMS

## *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 30 minutes 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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