

SOLIDBOND 305

Road Stud and General Purpose Rapid Set Adhesive

Solidbond 305 is a solvent-free epoxy adhesive for adhering aluminium and plastic road stud light reflectors to a tar or concrete road.

It may also be used for a wide range of adhesive applications where rapid set is required. Solidbond 305 has a short working life and a rapid practical cure.

UNIQUE PRODUCT BENEFITS

- Good chemical resistance.
- Resists attack of petroleum products.
- Fast curing.
- Damp tolerant.
- Paste consistency - ease of application.

APPLICATIONS

- Mild steel.
- Stainless steel.
- Aluminium.
- All regular building materials.

SUBSTRATE REQUIREMENTS

Surfaces that are to be treated must be free of dust, oily residues and loose friable material.

PREPARATION

Concrete

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust and loose friable materials.

Wood

Wooden substrates are to be suitably sanded, existing coatings are to be removed. Sweep dust and

TECHNICAL DETAILS

Adhesion to Concrete	> 1.5 MPa (Concrete failure)	ASTM D7234
Hardness	80	Shore D
Water Uptake (Permeability)	Nil	Karsten Test
Service Temperature	Wet 60°C Dry 80°C	
Chemical Resistance	Refer to chemical chart. Resists attack of petroleum products	
Mix Ratio	2:1 (by volume)	
Solids Content	100%	
Pot Life	12 minutes	
Practical Cure	2 hrs	
Full Cure @ 25°C	24 hrs (Full cure time is temperature sensitive)	
Colour	Grey / black	
Coverage	Approx. 8 - 10 studs per litre	
Application Temperature	15 to 35°C	
Shelf Life	Storage at 25°C - 12 months	

PACKAGING

Solidbond 305 is supplied in a 1 L kit

loose debris followed by vacuuming, to obtain a dry and dust-free surface.

Steel

Steel surfaces require abrasive blast cleaning (Sa 2½, ISO 8501-1: 1988), alternatively the steel can be prepared mechanically to Grade St3. Mechanical cleaning is, however, not as effective as abrasive blasting and results in a shorter maintenance free life.

Leading manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

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INSTALLATION

Mixing

Ensure that the product is between 15 - 25°C.

Pre-mix each component separately before combining each part on a clean flat board and mix together with a spatula for 4 - 5 minutes. A uniform colour must be achieved after mixing.

Small quantities can be mixed in a 2:1 ratio (by volume).

Placing

Using a spatula, apply the mixed material to the prepared surfaces. Ensure full contact between each surface is achieved. Remove excess adhesive and smooth off the glue line with water.

CLEAN-UP

Use *Solveklean WSBC* and rinse with water.

LIMITATIONS

- Application temperature of minimum 15°C and rising.
- Low temperatures affect the application consistency and cure.
- Hot temperatures reduce working time and increases the cure rate.
- Do not apply onto wet surfaces.
- Do not thin with solvents.

HEALTH AND SAFETY

Epoxy products are to be treated with care. In the event of skin contact, wash well with soap and warm water. Seek medical assistance immediately in case of eye contact.

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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