

ADCOPOXY 614

Low viscosity structural epoxy
grouting compound

ADCO
Construction-
and Mining
Chemicals

adcon
www.adcon-namibia.com

adcon cc
established 1994

Head Office : Nr 7 Eider Street, Lafrenz, PO Box 80490, Windhoek, Namibia Tel : +(264)61-215340 Fax : +(264)61-238429 E-mail : adcon@iafrica.com.na
Walvis Bay Branch: Unit 14, 10th Street, Factory Park, PO Box 4587, Walvis Bay, Namibia Tel : +(264)64-221343 Fax : +(264)64-221344 E-mail : wvb1@adcon.com.na

technical data sheet

DESCRIPTION

ADCOpoxy 614 is a low viscosity, solvent-free epoxy paste with excellent adhesion and compressive strength characteristics. The product can be supplied as a 3-component system – activator, base, plus selected graded aggregate for bulking.

USES

ADCOpoxy 614 is primarily specified as structural grouting compound under base plates or bearing pads but can be used as structural repair medium, the fixing of steel dowels and starter bars into concrete members or bonding butyl rubber or hypalon bandage sealing systems to concrete substrates.

SURFACE PREPARATION

Surfaces to receive ADCOpoxy 614 shall be clean, dry and sound, free from oil and laitance, dust or curing agents. Steel should be abraded – concrete shall be scabbled, scarified or etched to form a mechanically keyed surface. Remove dust with compressed air or vacuum. Butyl rubber and hypalon bandages have to be pre-treated with a solvent wipe.

MIXING AND APPLICATION

A 2-litre kit of ADCOpoxy 614 is supplied with separately packed activator and base. Mix activator and base components separately, then transfer the total quantity of the activator onto the base and mix thoroughly (mechanical slow-speed mixing is preferred) until the material is a uniform grey colour, free from streaks and lumps. Where aggregate filled application is specified, now add the quantity of aggregate supplied and mix through. Apply immediately after mixing.

When grouting with ADCOpoxy 614, ensure correct shuttering of member before pourable application takes place; control the flow of material in order to achieve complete contact / wetting with substrate without entrapment of air pockets – smooth with water-wetted steel trowel if required. Curing times are retarded by low temperatures and accelerated in elevated ambient temperature conditions.

Clean all tools and equipment immediately after use with ADCOchem 291.

PROPERTIES

Mixing Ratio	use as supplied
Pot Life	±40 minutes depending on ambient conditions
Practical Cure	24 hrs @ 24°C, full cure at 7 days
Shelf Life	1 year
Storage	do not freeze
Solids Content	>98%
Colour	grey
Application Temp	dry 10°C; wet 60°C
Compressive Strength	>72 MPa
Tensile Strength	±26 MPa
Shear Strength	±38 MPa (failure of concrete at adhesive line)

Early strength characteristics after 24 hours at 25°C :

Adhesion to concrete	min 20 kg / cm ² (depending on surface and preparation)
Adhesion to steel	min 30 kg / cm ² (depending on surface and preparation)
Adhesion to treated- or prepared steel	min 60 kg / cm ² (no surface rust, contamination, etc)

SAFETY

Contact with the skin should be avoided by wearing gloves and protective clothing. In case of eye contact wash well with warm water and obtain medical advice. The cured material is not toxic.

Remember : Keep away from children, handle responsibly and consider the environment.

UPDATE

May 2017.

This supercedes all previous documentation.