

mart-WD 6

2 PART MODIFIED WET TO DRY EPOXY ADHESIVE

DESCRIPTION

mart-WD 6, superior modified wet to dry epoxy adhesive with very high adhesion properties to concrete, brick, and steel. For structural repairs, mart-WD 6 provides a structural bond between wet and cured concrete. It can be used as an anti-corrosive coating on steel rebar.

Mart-WD 6 meets or exceeds ASTM C 881/C 881M -02, Type I to V, Grade 2, Class E for application, viscosity, and temperature of application.

CHARACTERISTICS/ADVANTAGES

- Easy mixing and application.
- Good fatigue resistance properties
- Non-shrink
- High bond, tensile and lap shear strength.
- Extended open time of 6 – 7 hours
- Excellent adhesion to most construction materials
- Solvent free
- No primer needed

TYPICAL USES

- Structural bonding agent and adhesive for
 - Bonding fresh to cured (hardened) concrete.
- Where anti-corrosive coating is needed on steel bar.
- Patch and repair work where extended open time is needed.

PACKAGING

1L, 2L and 5L containers.

CLEANING AND STORAGE

- Remove excess uncured sealant from surfaces and tools immediately with mart-Clean.
- Store in a cool dry place.
- 12-month Shelf life from date of manufacturing if kept in the original packaging.

HEALTH AND SAFETY

- In all cases, consult the Material Safety Data Sheet before use.
- Contact with eyes and skin must be avoided.
- In case of contact with eyes, flush eyes immediately with clean water and call a physician.
- Wash hands thoroughly after contact.
- Always wear dust masks when handling, mixing and applying products.

mart-WD 6

2 PART MODIFIED WET TO DRY EPOXY ADHESIVE

APPLICATION PROCEDURE

Surface Preparation:

- Surface must be sound, clean, free of oil & grease, dirt, dust, cement laitance & other foreign material.
- Remove all loose concrete.
- Any cracks should be repaired under separate application before continuation of further work.
- Repair areas must have an exposed aggregate surface.
- Expose aggregate by mechanical abrasion such as scabbling, grit blasting or grinding used to expose the area and clean all reinforcing.
- If not, possible acid etching may be carried out, but this must be neutralized before continuation of further work.

Mixing:

- Mixing must not take place in temperatures below 5°C
- With a small trowel, stir Part A resin and Part B activator separately.
- Add the entire contents of Part B (activator) to Part A (base). Do not part mix
- Mix with a mixing paddle attached to a slow speed drill (max. 300 rpm) for at least 3 – 5 minutes.
- Mix thoroughly until uniform grey colour is obtained. Incomplete mixing will result in poor physical properties or partial cure.

Application:

- With a stiff bristle brush, shortened at an angle by 50%, apply mart-WD 6 to prepared area.
- Ensuring thorough coverage, specifically addressing all voids and areas around exposed aggregated.
- Attention to detail when applying mart-WD 6 is crucial to ensure proper bond of fresh to cured (hardened) concrete.
- Rusted reinforcing should be thoroughly cleaned and coated with a suitable conversion coating.
- Fresh concrete must be placed while mart-WD 6 is still tacky (within 6 – 7 hours of mart-WD 6 application)
- If product has begun to set, a second coat must be applied, if not this will become a bond breaker between fresh and cured (hardened) concrete.

mart-WD 6

2 PART MODIFIED WET TO DRY EPOXY ADHESIVE

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Type of repair mix	Structural repair
Mix Ratio	Mix entire contents of Part A resin with Part B activator (do not part mix)
Coverage	1-1.5m ² / litre depending on surfaces (1L per 1m ² applied 1mm thick)
Pot Life	6 – 7 hours
Cure	Practical – 24 hours, full cure 14 days
Compressive strength	> 50MPa
Tensile strength	> 6MPa for Concrete ≥ 10MPa for steel
Application temperature	Between 10°C and 35°C



Disclaimer: The information contained in this document is given to the best of Mart Solutions' knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving Mart Solutions' liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Mart Solutions specialists are at the disposal of the users in order to help them with any problems encountered.