



TECHNICAL DATA SHEET



UNDERWATER REPAIR EPOXY PUTTY PART NO: 16602

DESCRIPTION

DynaGrip® DYNASTEEL UNDERWATER REPAIR EPOXY is a hand-mixable, specialty epoxy putty optimized for repairs to damp, wet areas and underwater surfaces. After mixing, it forms a polymer compound that can be applied underwater in both fresh and salt water environments as well as to dry surfaces. It will bond tenaciously to substrates such as fibreglass, concrete, metal, ceramic, glass, wood, and many plastics. Each handy stick contains pre-measured portions of activator and base throughout. No measuring or mixing tools are necessary — simply cut, mix, and apply. The consistency (like modeling clay) eliminates drips and runs, facilitates the adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins.



TYPICAL APPLICATIONS

DynaGrip® DYNASTEEL UNDERWATER REPAIR EPOXY is ideal for making emergency in-water repairs. Use it to patch scratches, cuts, dings, gouges, and holes in fibreglass, metal, and wooden boat decks and hulls; fix dents in surfboards and similar marine recreational equipment; fill chips in ceramic tile; replace missing grout in swimming pools; form custom gaskets; and repair electrical connections, fittings, pipes, leaking gaskets, tubs, battery cases, sinks, spas, hot tubs and pools.

FEATURES

- Suitable for interior and exterior use.
- Contains no solvents or VOCs.
- Won't shrink or pull away.
- Non-flammable; releases no noxious fumes.

APPLICATION LIMITATIONS

- Does not adhere to polyethylene, polypropylene, or PTFE.
- Not intended for use in structural applications.

DIRECTIONS

Wear impervious gloves when mixing or handling uncured DYNASTEEL UNDERWATER. Although it can be applied under water, it should be mixed above the waterline. Use damp fingers for easier mixing, application and a smooth appearance. For best results, sand to roughen surface and wipe away dirt or loose particles. DYNASTEEL UNDERWATER does not adhere to painted surfaces. All paint residue must be removed.

1. Cut off amount needed for repair.
2. Knead product to one uniform colour (no flecks) and warm to the touch.
3. Apply firmly within 2 minutes of mixing. Force into any cracks or holes and remove any excess material. When applying to a damp, wet or slowly leaking area, work the mixed material forcefully into the surface and apply pressure until adhesion begins to take effect.

DYNASTEEL UNDERWATER IS NOT INTENDED FOR STRUCTURAL APPLICATIONS.

CURING: DYNASTEEL UNDERWATER has a 3 to 5 minute work life. Functional cure occurs in 60 minutes. After 60 minutes the application can be drilled, sawed, filed, machined, tapped and painted.

In immersed applications, DYNASTEEL UNDERWATER cure rate is dependent upon the water temperature just as non-immersed applications are affected by the air temperature: the lower the temperature, the longer it takes to cure.

PERFORMANCE DATA*

Properties	Results
Work life	3 to 5 minutes
Shelf Stability 24°C (75°F)	2 years
Shore D hardness at full cure (24 hrs)	77
Lap shear tensile strength	
On steel (0.5" x 1.0")	900 psi (6.2 MPa)
Compressive strength	8700 psi (48 MPa)
Shrinkage	<1%
Temperature limits	
Continuous	up to 149°C (up to 300°F)
Chemical resistance	Resistant to hydrocarbons, ketones, esters, alcohols, halocarbons, aqueous salt solutions, and dilute acids and bases
Dielectric strength	295 volts/mil

* Typical properties are for information only, not for purposes of specification. The data above represents product performance in ideal laboratory conditions. Individual users' experience may vary depending on application conditions.

COLOUR

Cured colour is Off-white. If colour is critical, test before applying. **DynaGrip® DYNASTEEL UNDERWATER REPAIR EPOXY** can be sanded and painted to match any surface colour.

PACKAGING

Packaged in a reusable clear plastic tube with a plastic friction top.

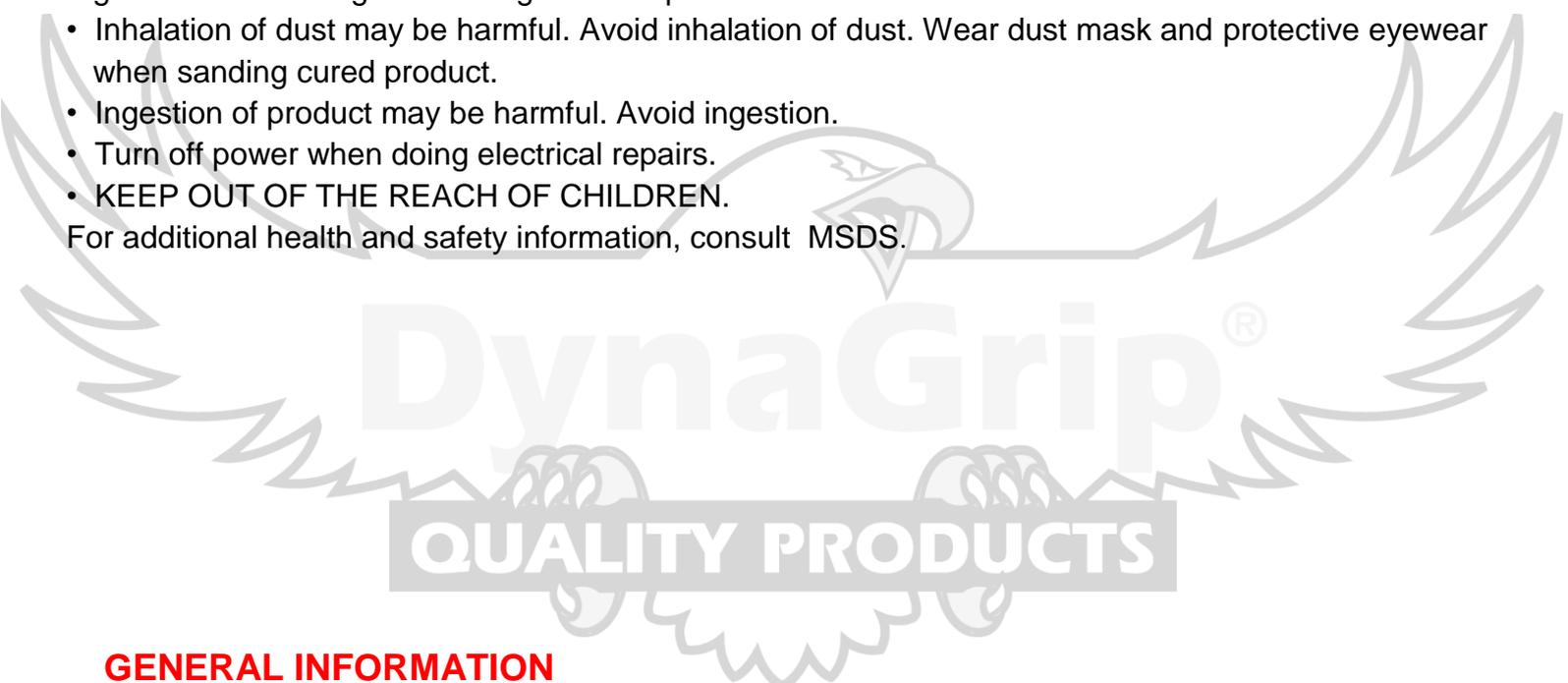
SHELF LIFE

Two years minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 24°C (75°F).

HEALTH PRECAUTIONS

- Contains Epoxy Resin. Epoxies are skin/eye irritants and known sensitizers. Direct product contact may cause an allergic reaction in some individuals. Avoid skin/eye contact. Wear impermeable gloves when mixing or handling uncured product.
- Inhalation of dust may be harmful. Avoid inhalation of dust. Wear dust mask and protective eyewear when sanding cured product.
- Ingestion of product may be harmful. Avoid ingestion.
- Turn off power when doing electrical repairs.
- **KEEP OUT OF THE REACH OF CHILDREN.**

For additional health and safety information, consult MSDS.



DynaGrip®

QUALITY PRODUCTS

GENERAL INFORMATION

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitable use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

The supplier warrants only that its products will meet its specifications. There is no use, nor any other express or implied warranty. The user's exclusive remedy and the supplier's sole liability is limited to refund of the purchase price or replacement of any product when to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind.

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