

# Technical Data Sheet

## 101 Super Guard “Epoxy Coating”

Version 01/2025

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### UNIGRIP 101 Super Guard - Epoxy Coating

#### Characteristics:

- Solvent-Free – 100% solids formulation with no shrinkage.
- Non-Conductive – Provides reliable electrical insulation.
- Conveniently available in single and dual cartridges for ease of use (pre-mixed)
- Rapid Curing – Fast hardening for emergency repairs and reduced downtime.
- High Mechanical Strength – Excellent compressive and structural performance.
- Strong Adhesion – Bonds effectively to metals and epoxy-compatible composites.
- Temperature Resistant – Maintains performance under elevated temperatures.
- High Durability – Resistant to corrosion, chemical attack, abrasion, and erosion.
- Water-Tolerant – Apply to and cures in dry, wet and humid environments.

#### Application methods

- Spray – Airless or conventional K2 spray equipment recommended for large surface areas.
- Brush – Suitable for stripe coating, edges, welds, and small repairs.
- Roller – For small to medium surfaces and touch-up work; may require multiple coats for full coverage. (We recommend double layer applications- 2 x 7.8 mils / 2 x 200 microns)

#### Technical properties

Density Mixed product:

- Approx. 1.208 g/cm<sup>3</sup> at 20°C (DIN 53217)

Solid content:

- 100 volume percent (= 100 weight percent)

Mixing Ratio:

- Component A: 66,85 parts by weight
- Component B: 33,15 parts by weight

Potlife:

- Approx. 65 minutes of 1 kg of mixed product at 20°C.

Recommended layer thickness

- 15.74 mils / 400 µm wet/dry

Theoretical spreading rate:

- 22.6 sqf / 2,1 m<sup>2</sup>/kg (= 26.90 sqf / 2,5 m<sup>2</sup>/ltr) at 7.8 mils / 400 µm wet/dry layer thickness

Practical spreading rate:

- Approx. 1.21 lbs / 550 g/m<sup>2</sup> at (15.74 mils / 400 µm layer thickness)  
(Depending on the conditions of the substrate and method of application, etc.)

#### Drying time

(20°C / 65% R.H.)

-Wet in Wet applications

- After approx. 60-75 min (Allow approx.60-75 minutes between layers before applying the next layer)

-Dust-free:

- After approx. 3 hours

-Re-Coatable<sup>1)</sup>:

- After approx. 60-75 min

-Light traffic:

- After approx. 7 hours

1) Two-layer Epoxy we recommend Wet in Wet applications

2) PU Topcoats-Ensure the epoxy primer is fully cured according to the manufacturer's specified curing time

3) In systems a maximal drying time of 24 hours between the layers, unless a pre-treatment of the substrate takes place.

Shear adhesion on steel

- ≤30 (N/mm<sup>2</sup>)

Dyna pull on steel N/mm<sup>2</sup>

- ≤8.4 (N/mm<sup>2</sup>)

Dyna pull aluminum N/mm<sup>2</sup>

- ≤3.3 (N/mm<sup>2</sup>)

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	SO (mm <sup>2</sup> )	E (N/mm <sup>2</sup> )	F Crack (N)	R Crack (N/mm <sup>2</sup> )	F Max (N)	R Max (N)	Compression
Compressive strength	167.42	546.6	8.991.5	53.7	8.991.5	53.7	4.23
Tensile strength	49.57	2.057.3	1.131.9	22.8	1.155.1	23.2	2.30

Heat Resistance	Dielectric strength Kv/mm	Shore D @ 20 °C / 7 days	Peak exotherm	Shear adhesion R Crack (N/mm <sup>2</sup> )
356 °F (180 °C)	10	73	74°C after 85 min.	30.0

	Start weight (g)	End Weight (g)	Weight loss (g)	Wear index	Average Wear index
Test 1	88.8898	88.7668	0.1230	123	122
Test 2	88.0945	87.9737	0.1208	121	122

Taber Test ISO 7784-2, performed on a Digital Abraser model 5130

**Tested Acc. To:**

Hardness:	ISO 868
Tensile strength:	ISO 527
Compressive strength:	ISO 604
Adhesion to steel:	ISO 4624
Density mixed products:	DIN 53217
Taber test - average wear index:	ISO 7784-2
Flash point component:	DIN 53213

# Technical Data Sheet

## 101 Super Guard “Epoxy Coating”

Version 01/2025

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### UNIGRIP 101 Super Guard - Epoxy Coating

#### Works on substrates (but not limited) to such as:

- Steel, metal, GRE, Fiberglass and other composite materials Concrete and other stony substrates, and wood.

#### Substrate conditions:

- The substrate must be clean, dry, grease & dust-free and comply with the standard applicable conditions and requirements.

#### Remark:

- Remark: Treatment and the system of choice must be tailored to the technical capabilities and requirements of the application. For an optimum result a thorough inspection and a technical advice may be required

#### Availability:

- Colour: Blue / White
- Appearance: Glossy
- Packaging: 9oz (265ml) single cartridge and 38oz (1125ml) dual cartridge, 1.05 gal kit (4 ltr) and 4.23 gal kit (16 ltr)

#### Shelf life and storage:

- Store in well closed original packaging, cool, dry & frost free
- Shelf life At least 24 months in the original packaging.

#### Flash point:

- Component A: >65°C (DIN 53213)
- Component B: >65°C (DIN 53213)

#### Processing:

- Reducing / thinning is not recommended. (**For airless spray**, reduction of 5–10% with an appropriate epoxy solvent can be used. But please note that solvent reduction can affect film build and other physical properties.

#### Mixing instructions:

- Single and dual cartridge: We recommend to Stir gently after dispensing through the static mixing nozzle, prior to application.
- 4 ltr and 16 ltr kits: Add Component B to Component A. Mix thoroughly and mechanically until a uniform blend is achieved. Transfer the mixture into a clean container and mix again to ensure full homogeneity, avoiding weak spots or incomplete curing caused by insufficient mixing. **Note: “Pot life is significantly reduced when mixing larger quantities”.**

#### Cleaning instructions

- Brush thinner EP / Spray thinner EP.
- (To be completed prior to curing of the product).

#### Precautions:

- Ensure sufficient ventilation during application and curing.
- Avoid skin contact by using the appropriate protection like gloves, safety glasses, safety shoes, safety clothing, protective creams, etc.
- Do not apply with open fire. No smoking. See also the instructions on the label of the product

#### Safety Measures:

The national legislation for health & safety, environment will apply for the user. Please consult the latest version of the Material Safety Data Sheet of this product.

This product information might be subject of change due to inevitable product modifications. Please consult our Technical service department for the most recent version of the Technical data sheet. Previous versions of this Technical data sheet are no longer valid.

# Product Data Sheet

## 201 Super Metal Filler Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Description:

UNIGRIP 201 Rapid – Super Metal Filler

Is a quick-hardening, solvent-free, two-component epoxy filler developed for fast repairs and emergency maintenance. Its rapid curing makes it ideal for sealing cracks, stopping leaks, and restoring surface damage across marine, offshore, and industrial applications.

Engineered to deliver metal-like strength and performance, UNIGRIP 201 delivers outstanding adhesion to metallic substrates and epoxy-compatible composites, ensuring strong, reliable repairs. This combination of metal-like performance and exceptional bonding makes it highly effective for restoring corroded, worn, or damaged equipment.

Designed for both temporary and permanent repairs, UNIGRIP 201 minimizes downtime while providing a versatile, easy-to-use solution for in-line fixes in the most demanding environments.

### Intended Use:

- Surface Restoration – Rebuilds and restores worn or damaged surfaces back to their original shape and size (ideal for wear, pitting, corrosion, and erosion).
- Material Bonding – Effective for bonding dissimilar materials while eliminating bi-metallic corrosion.
- Typical Applications – Suitable for repairing corroded tanks, pump housings and impellers, valves, tubes, pipes, heat exchangers, flange faces, seats, worn shafts, hydraulic rams, and emergency repairs requiring short curing times.
- Filling Compound – Can also be used as a high-performance gap-filling solution.

### Key Features

- Solvent-Free – 100% solid formulation with no shrinkage.
- Non-Conductive – Provides reliable insulation, non-electrically leading.
- Easy to Apply – Simple 1:1 mixing ratio (by weight or volume).
- Fast-Curing – Hardens quickly for emergency repairs, minimizing downtime.
- High Strength – Exceptional mechanical and compressive performance.
- Versatile Bonding – Adheres strongly to metal and epoxy-compatible composites.
- Temperature Resistant – Maintains integrity in high-temperature environments.
- Durable – Excellent resistance to corrosion, chemicals, abrasion, and erosion.
- Water-Tolerant – Engineered to cure in dry, wet, humid, and even underwater conditions.
- Post-Processing Ready – Once cured, can be sanded, machined, drilled, and worked like metal.

# Product Data Sheet

## 201 Super Metal Filler Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Benefits:

- Enhanced Equipment Longevity – Protects against corrosion, wear, abrasion, heat, and chemical exposure, extending the service life of marine, offshore, and industrial equipment.
- Cost-Effective Maintenance – Reduces repair frequency and downtime, delivering significant savings in time and resources.
- Reliable in Harsh Environments – Proven performance under demanding marine, offshore, and industrial conditions.
- Versatile Application – Suitable for a wide range of surfaces, including tanks, pipes, valves, and machinery components.
- Ease of Use – Simple to apply with minimal preparation, ensuring fast and efficient repairs.
- High Impact Resistance – Maintains strength and durability even under heavy mechanical stress.

### Packaging:

UNIGRIP 201 is available in the following size:

- 2.2 lbs unit (1.0 kg unit)

### Shelf Life:

UNIGRIP 201 should be stored out of direct sunlight in dry frost free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be 36 months from the date of manufacture. One year minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).

**UNIGRIP**

# Technical Data Sheet

## 201 Super Metal Filler Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### General Description

A quick-hardening solvent-free two component filler compound based on epoxy.

### Characteristics:

- Solvent-Free – 100% solids formulation with no shrinkage.
- Non-Conductive – Provides reliable electrical insulation.
- Simple Mixing – 1:1 ratio by weight or volume.
- Rapid Curing – Fast hardening for emergency repairs and reduced downtime.
- High Mechanical Strength – Excellent compressive and structural performance.
- Strong Adhesion – Bonds effectively to metals and epoxy-compatible composites.
- Temperature Resistant – Maintains performance under elevated temperatures.
- High Durability – Resistant to corrosion, chemical attack, abrasion, and erosion.
- Water-Tolerant – Cures in dry, wet, humid, and fully submerged environments.
- Machinable – After curing, can be sanded, drilled, machined, and tooled like metal.
- Short pot life.

### Applications

- Designed to level out irregularities in steel, metal, concrete, wood, and stone substrates..
- Sealing of cracks and holes.
- Finishing filler compound.
- For filled gluing/bonding of parts.

### Technical properties

- Density Mixed product: • Approx. 1.6 kg/dm<sup>3</sup> at 20°C (DIN 53217)
- Solid content: • 100 volume percent (=100 weight percent)
- Mixing Ratio: • Component A: 50 parts by weight / volume  
• Component B: 50 parts by weight / volume
- Potlife: • Approx. 20 minutes of 100 gram of mixed product at 20°C
- Theoretical spreading rate: • Approx. 0.62 m<sup>2</sup>/kg (=1.0 m<sup>2</sup>/ltr) at 1 millimeter layer thickness.
- Practical spreading rate: • Approx. 1.6 kg/m<sup>2</sup> at 1 millimeter layer thickness.  
(Depending on the conditions of the substrate and method of application, etc.)

### Drying time (20°C / 65% R.H.)

- Wet in Wet applications • After approx. 30 min (Allow approx.30 minutes between layers before applying the next layer)
- Dust-free: • After approx. 1 hour
- Re-Coatable<sup>3</sup>: • After approx. 1 hours (recommend wet in wet applications)
- Sandable: • After approx. 6 hours

Shear adhesion on steel • Peak tension: 34.413 (N/mm<sup>2</sup>)

Dyna pull on steel N/mm<sup>2</sup> • 7.2 (N/mm<sup>2</sup>)

Dyna pull aluminum N/mm<sup>2</sup> • 3.3 (N/mm<sup>2</sup>)

Hardness Shore D • > 82

# Technical Data Sheet

## 201 Super Metal Filler Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Systems:

#### Works on substrates such as:

- Steel, metal, GRE, Fiberglass and other composite materials Concrete and other stony substrates, and wood.

#### Substrate conditions:

- The substrate must be clean, dry, grease & dust-free and comply with the standard applicable conditions and requirements.

#### Remark:

- Remark: Treatment and the system of choice must be tailored to the technical capabilities and requirements of the application. For an optimum result a thorough inspection and a technical advice may be required

#### Availability:

- Colour: Beige
- Appearance: Glossy
- Packaging: 1 kg set

#### Shelf life and storage:

- Store in well closed original packaging, cool, dry & frost free
- Shelf life At least 24 months in the original packaging.

#### Safety Aspects:

##### Flash point:

- Component A: >65°C (DIN 53213)
- Component B: >65°C (DIN 53213)

##### Precautions:

- Ensure sufficient ventilation during application and curing.
- Avoid skin contact by using the appropriate protection like gloves, safety glasses, safety shoes, safety clothing, protective creams, etc.
- Do not apply with open fire. No smoking. See also the instructions on the label of the product

##### Safety Measures:

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# Technical Data Sheet

## 201 Super Metal Filler Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Technical Data Continued

	E (N/mm <sup>2</sup> )	Peak (N)	Tension peak (N/mm <sup>2</sup> )	F Crack (N)	Tension break (N/mm <sup>2</sup> )	Displacement peak (mm)	Displacement break (mm)
Compressive strength	571.64	11351	67.58	11531	67.58	0.514	0.514
Tensile strength	4204.4	710.97	23.276	691.98	22.648	1.243	1.243

Heat Resistance	Dielectric strength Kv/mm	Hardness Shore D
230 °F (110 °C)	10	> 82

Tested Acc. To:	
Hardness	ISO 868
Tensile strength	ISO 4624
Compressive strength	ISO 527
Adhesion to steel	ISO 4624
Density mixed products	DIN 53217
Taber test - average wear index	ISO 7784-2
Flash point component	DIN 53213

# Instruction for use

## 201 Super Metal Filler Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Surface preparations:

Surface preparations must always be in compliance with clients specifications or job requirements. Commonly used standards for surface preparations:

#### Recommended:

SSPC-SP 10/NACE No. 2. ISO 85011-1:1988 (E) (SIS 05 59 00) Sa 2 1/2

#### Alternative:

SSPC-SP 11 - Power Tool Cleaning to Bare Metal

1. **Clean and degrease** all surfaces, including cut-outs, rat holes and welds shall be rounded to a radius of at least 2 mm, weld splatter removed.
2. **Weld seams burned**, and rusty areas blast cleaned to min ISO-Sa 2½ or power tool cleaned to min SPSS-Pt3 prior to Grit Blasting
3. **Rough to an angular** profile between 75 – 100 microns (in accordance with ISO 8503 parts 1 and 2)
4. **Abrasive blasting** to a cleanliness of white metal (Sa3/SP5) or near-white metal (Sa 2½ /SP10) followed by removal of all abrasive residues.
5. **The purity** of the sandblasting is visual checked.
6. **Bresler Sampler test** for measuring soluble salts / chlorides in the steel surface (ISO 8502-6) limit value <20 mg / m<sup>2</sup>.
7. **Distance to Dew Point** of minimum 3 degrees Celsius throughout the application process.
8. **Brush away** any loose contamination Degrease with Item 903 **UNIGRIP Bio cleaner** (Cleaner/ Degreaser) or any other effective cleaner which does not leave a residue e.g., methyl ethyl ketone (MEK).

### Preparations:

#### PREPARATIONS AND MIXING:

- Theoretical coverage of a complete set 2.2 lbs (1.0 kg) is approximately 7 ft<sup>2</sup> (0.65 m<sup>2</sup>)
- Mixing the part A “base” with part B “hardener”. Mixing ratio (1:1)
- On a mixing pad or similar, mix one part A with one part B until a uniform color (light gray) is achieved.
- If the entire kit is to be used, mix all of part A with all of part B until a uniform color (light gray) is achieved

### Applications:

#### Application Process:

- Apply with spatula the mixed super metal filler directly onto the damaged area/s
- Shape and smoothen the material using the spatula, trowel, or by hand (with gloves).

#### Curing:

- Allow the product to set for 2-4 hours for functional use.
- For overcoating: allow 4-6 hours before sanding and then overcoating protecting layer/s of UNIGRIP 101 Super Guard or 701 Aqua Guard
- Mechanical cure will be achieved within 4-6 hours @ 68°F (20°C).
- Full mechanical or thermal loading 24 hours

#### Final Steps:

- Once cured, the repaired area can be machined, drilled, or sanded if necessary.
- Inspect the repair to ensure a proper seal or bond has been achieved.

#### Working life:

After mixing, UNIGRIP 201 must be used within the timeframe of 15-30 minutes.



# 201 Super Metal Filler Compound

High Performance epoxy repair compound for corrosion protection and damage repair of systems subjected to harsh weather conditions and extreme heat (also works under water).

## Key Specifications

- 100 % solid, solvent and filler free: for maximum strength
- Mixing ratio 1:1 in parts by weight and volume.
- Excellent curing.
- Fast-Curing: Hardens quickly for emergency repairs, minimizing downtime.
- Temperature Resistant: Performs well in high-temperature environments
- After curing, the product can be machined, drilled and worked like metal.

## Availability

UNIGRIP 201: box part A+B, 2.2 lbs unit (1.0 kg)

Incl. 1x mixing knife, 1x spatula (for application), 1x set of nitrile gloves

## Application Areas

- Surface Restoration – Rebuilds and restores surfaces to their original shape and size (effective against wear, pitting, damage, corrosion, and erosion).
- Filling Compound – Can also be used as a high-performance filler for gaps and voids.
- Underwater Application – Formulated to cure and perform reliably even in wet, humid, or fully submerged conditions.





# Unigrip Putty Sticks

## Fast Steel - High Temp - Aqua

UNIGRIP offers three different high-performance Epoxy Putty sticks.

- **FastSteel Putty:** a fast-setting epoxy putty for quick, permanent repair
- **Hi-Temp Titanium Putty:** a high strength bond and repair putty for materials exposed to high temperatures
- **AquaFix Putty:** for wet / underwater applications

Each variant contains premeasured portions of base and activator

### Key Specifications

Quick repair of all metallic surfaces, concrete, wood and plastics.

These marine/industrial strength putties far outperforms conventional epoxy putties in lap shear tensile strength testing.

Resistance to chemicals, hydrocarbons, Ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids, bases, solvents, and alkalis

### Availability

301	2.0 oz./57 gr stick (Fast steel)
303	3.75 oz/106 gr stick (High temp.)

### Application Areas

Repair of steel pipes, tanks, equipment, castings, tools, stripped threads, molds, ductwork and other. Use it to bond metals in industrial maintenance applications, and to fill cracks and holes.



# Product Data Sheet

## 301 Fast-Steel Epoxy Sticks

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Unigrip Fast-Steel Epoxy Putty

a high-performance hand-mixable, fast-setting epoxy putty formulated for quick, permanent repairs to, ceramics, metals, concrete, wood, and numerous plastics.

After mixing it forms an industrial-strength polymer compound for numerous marine and Industrial repairs. Each handy stick contains pre-measured portions of activator and base. No measuring or mixing tools are necessary. Just cut, mix, and apply. The consistency (like modeling clay) eliminates drips and runs, molds easily, facilitates adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins. It bonds tenaciously to metals and cures tough and hard, with nearly no shrinkage. This marine/industrial strength putty far outperforms conventional epoxy putties in lap shear tensile strength testing.

### Intended Use

Repair of steel pipes, tanks, equipment, castings, tools, stripped threads, molds, ductwork and other. Use it to bond metals in industrial maintenance applications, and to fill cracks and holes.

### Technical Data

Properties	Results	Test Methods
Work life	3 - 5 minutes @ 24°C	
Shore D Hardness	75	ASTM D2240
Lap shear strength on Concrete	6.2N/mm <sup>2</sup>	ASTM D1002
Shrinkage	<1%	ASTM D2566
Temperature Limitations	121°C Continuous 149°C intermittent	
Dielectric strength	11,800 V/mm	ASTM D149
Compressive strength	55N/mm <sup>2</sup>	ASTM D695
<b>Chemical resistance:</b> Resistant to hydrocarbons, Ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids and bases.		

\*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.

### Packaging

Unit Size: 2 oz / 57g and 4 oz / 114g

UNIGRIP FastSteel Putty is supplied in a stick form wrapped in a clear release. Packaged in a reusable clear plastic tube with a plastic friction top.

### Shelf Life

UNIGRIP FastSteel Putty should be stored out of direct sunlight in dry frost free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be 36 months from the date of manufacture. One year minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).

\*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.

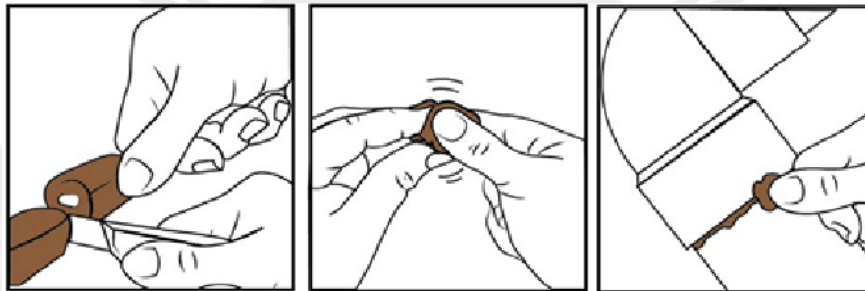
# Instructions For Use

## 301 Fast-Steel Epoxy Sticks

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Instructions for Use

1. In order to achieve optimum adhesion, surfaces should be cleaned free of grease, dirt, paint etc., and preferably should be dry. To ensure a good bond, abrade both surfaces followed by additional cleaning.
2. Twist or cut off the required amount of UNIGRIP FastSteel Putty.
3. If the material is cold mixing may be difficult, and warming to room temperature is advised.
4. To mix, knead the putty with the fingers for at least one minute or until it is a uniform colour.
5. Press the putty onto the prepared surface within 1 hour of mixing.
6. If it is being used as an adhesive, force some putty against each of the two surfaces to be joined, before pressing the faces together, and support the joint as necessary.
7. If it is being used as a filler/repair material force the putty into the area to be filled, and shape and strike off any excess with a tool wetted with clean water.
8. For a smooth appearance rub with water or a damp cloth within the working life of the putty.
9. After 3-5 minutes the epoxy putty will harden like metal and start to form a bond. After 60 minutes the material will be cured sufficiently to allow a repaired water system to be put back into service. Full cure will be achieved after 24 hours.



### 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 a Safety Data Sheet.

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.



# 401 Fiberglass Pipe Repair Tape

A rapid-curing pipe repair bandage especially formulated to make quick and effective repairs of cracks, leaks, fractures, and corrosion porosity in piping systems carrying water, oil, steam, most gases and even solvents. ensures reliable, reinforced repairs, enhancing the strength and longevity of piping systems in industrial, marine, and offshore environments.

## Key Specifications

No mixing or tools needed

Ready for use after soaking in water for 10 seconds

## Availability

401-S	2" x 2 yds (5cm x 1.8m) Pipe dia up to 2 1/2" (DN75)
401-M	2" x 4 yds (5cm x 3.6m) Pipe dia up to 5" (DN125)
401-L	4" x 5 yds (10cm x 4.8m) Pipe dia up to 8" (DN200)
401-XL	6" x 11 yds (15cm x 10m) Pipe dia up to 14" (DN350)

## Application Areas

UNIGRIP Pipe Tape is a tough, durable, anti-corrosion repair bandage specially formulated for rapid fixes of pipe leaks, cracks, and structural damage, and for restoring integrity to corroded or weakened pipes and structures, it also provides superior protection against environmental corrosion, wear, and abrasion. Ideal for industrial, marine, and offshore applications. The Unigrip pipe tape ensures strong, long-lasting repairs, reinforcing piping systems and structures for enhanced durability and reliability.



# Product Data Sheet

## 401 Fiberglass Pipe Repair Tape

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Description:

TUNIGRIP Pipe Tape is a tough, durable, anti-corrosion repair bandage specially formulated for rapid fixes of pipe leaks, cracks, and structural damage, and for restoring integrity to corroded or weakened pipes and structures, it also provides superior protection against environmental corrosion, wear, and abrasion. Ideal for industrial, marine, and offshore applications. The Unigrip pipe tape ensures strong, long-lasting repairs, reinforcing piping systems and structures for enhanced durability and reliability.

### Intended Use:

For repairing damaged or leaking pipes, and for reinforcing weakened and corroded pipes, joints and structures

### Key Features:

- Excellent adhesion to all metallic surfaces which makes the highly suitable for repair of corroded pipes
- Good pressure resistance.
  - a) Pressure resistance as is: 10 Bar (145psi). Based on 9 layers
- Service temperature:
  - a) Continuous: 100°C (212°F)
  - b) Peak: 150°C (302°F)
- Ready for use in “just” 10 seconds
- Versatile Application: It can be used on various pipe materials, including metal, plastic, and composite pipes.
- High Strength: The tape provides a strong, permanent repair that resists pressure, chemical exposure, and extreme environmental conditions.
- Corrosion-Resistant: The Unigrip Pipe Tape offers long-lasting protection against corrosion, extending the life of the repaired pipes.
- Available in 4 different sizes. Pipe diameters from 0.5” to 24”
- Resistance to chemicals, crude oil, diesel, Ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids, bases, solvents, and alkalis.

### Benefits:

- **No mixing tools needed**
- **Rapid curing pipe tape:** Once activated with water, the tape cures in 7-10 min, making it an ideal solution for emergency repairs. (fully cured in approx. 30 min)
- **Water-Activated:** The resin in the tape activates upon contact with water, making it easy to apply even in wet or underwater environments.

# Product Data Sheet

## 401 Fiberglass Pipe Repair Tape

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Packaging:

UNIGRIP Pipe Tape is supplied in sealed foil bags, and available in 4 different sizes. Pipe diameters from 0.5" to 20".

- a) Unigrip 401: Pipe tape 2" x 2 yds (5cm x 1.8m) / Pipe dia up to 3" (DN75)
- b) Unigrip 402: Pipe tape 2" x 4 yds (5cm x 3.6m) / Pipe dia up to 5" (DN125)
- c) Unigrip 403: Pipe tape 4" x 5 yds (10cm x 4.8m) / Pipe dia up to 10" (DN250)
- d) Unigrip 404: Pipe tape 4" x 11 yds (15cm x 10m) / Pipe dia 10" to 24" (DN600)

### Customized pipe repair kits: (UNIGRIP 400 SERIES)

### Shelf Life:

The Unigrip Pipe Tape should be stored out of direct sunlight in dry frost free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be 36 months from the date of manufacture. One year minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).

### Test results:

Note: All results and values mentioned above were achieved by our in-house laboratory and should be used as a guideline only.

Users are encouraged to conduct their own tests if they have any doubts.

Inhouse test results as follows:

- 2 inch pipe leak, 9 layers of Unigrip pipe tape in conjunction with Unigrip putty = 800psi pressure before leaking
- 2 inch pipe leak, 2 x 9 layers of Unigrip pipe tape in conjunction with Unigrip putty = 4000psi pressure before leaking. Proven performance: sustained 3500 psi for 24 hours with no drop in pressure / end of test.

# Technical Data Sheet

## 401 Fiberglass Pipe Repair Tape

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Technical data and performance

Curing Time at 20°C (68°F)	
Working Time	3-5 minutes
Cured material life	10-20 years dependent on repair quality, environmental conditions, pipe temperature etc.
Initial Cure Time	7-10 minutes
Full cure Time	30minutes

Mechanical Properties	
Tensile Strength	5075psi
Pressure resistance	145psi / 10 bar (Based on 9 layers) 450psi / 27 bar (when used with putty)
Shore D Hardness	70

Appearance	
Single Pack	Color White

Shelf Life	
3 Years	If unopened and stored in normal dry conditions 60-86 °F (15-30°C)

Maximum Heat	
Continuous: 100°C (212°F)	Peak: 150°C (302°F)

### Chemical resistance

·Please consult the Unigrip pipe tape / chemical resistance list

### For best results:

Do not apply when:

- The temperature is below 41 °F (5 °C)
- The working surface are not yet prepared acc. to UNIGRIP guidelines
- The working surface is contaminated by dirt/oil/grease etc.

### Safety data:

·For additional health and safety information, consult a Safety Data Sheet.

# Instruction for use

## 401 Fiberglass Pipe Repair Tape

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Surface preparations:

In order to achieve optimum adhesion, surfaces should be cleaned free of grease, dirt, paint etc., and preferably should be dry. To ensure a good bond, abrade both surfaces followed by additional cleaning

### Preparations:

- Ensure that the correct size UNIGRIP pipe tape is accounted for prior to commencement of the application. The UNIGRIP pipe tape is available in three different sizes (see below guide).
- Account for the required number of rolls to complete the application. Keep in mind that a minimum 9-layer wrap of UNIGRIP pipe tape is recommended per application. Follow this guide

Withstands up to 1500 psi/103 bar						
Pipe Diameter	Pipe Circle	9 wrap x circles	Pipe Tape	Pipe Tape	Pipe Tape	Pipe Tape
<i>Inch</i>	<i>Inch</i>	<i>Inch</i>	<i>2 Inch x 6ft</i>	<i>2 Inch x 12ft</i>	<i>4 Inch x 15ft</i>	<i>6 Inch x 33ft</i>
0.25	0.8	7.1	One Unit			
0.5	1.6	14.1	One Unit			
0.75	2.4	21.2	One Unit			
1	3.1	28.3	One Unit			
1.5	4.7	42.4	One Unit			
2	6.3	56.5	One Unit			
3	9.4	84.8	Two Units			
4	12.6	113.1	Two Units	One Unit		
5	15.7	141.4		One Unit		
6	18.8	169.6		Two Units	One Unit	
8	25.1	226.2		Two Units	One Unit	
10	31.4	282.7		Two Units	One Unit	
12	37.7	339.3			One Unit	
14	44.0	395.8			Two Units	One Unit
16	50.3	452.4				One Unit
18	56.5	508.9				Two Units
20	62.8	565.5				Two Units
22	69.1	622.0				Two Units
24	75.4	678.6				Two Units

DO NOT open the foil pouch until the UNIGRIP pipe tape is ready to be used as the reaction commences on exposure of the pre-impregnated fiberglass bandage to atmospheric moisture. Fill a small bucket of water and account for a spray bottle, or similar water-spraying device, and fill with clean water.

# Instruction for use

## 401 Fiberglass Pipe Repair Tape

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Working life:

After contact with water (activation), UNIGRIP Pipe Tape must be used within the times shown below.

Working Time	3-5 minutes
Cured material life	3-10 years dependent on repair quality, environmental conditions, pipe temperature etc.
Initial Cure Time	7-10 minutes
Full cure Time	30minutes

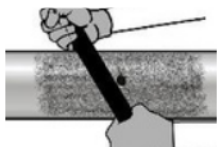
### For best results:

Do not apply when:

- The temperature is below 41 °F (5 °C)
- The working surface are not yet prepared acc. to UNIGRIP guidelines
- The working surface is contaminated by dirt/oil/grease etc.

### HAND APPLICATION

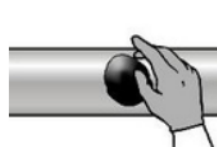
- Clean and roughen the working surface.
- Using gloved hands, open the foil pouch, and remove the UNIGRIP pipe tape roll.
- Immediately, immerse the pipe tape roll in water (free of visible contaminants) for at least 10 seconds to activate the resin that is already impregnated into the pipe tape.
- Apply the activated pipe tape firmly onto the repair area ensuring adequate contact with the substrate.
- With your gloved hands (or spray bottle) add water to the roll of
- UNIGRIP pipe tape as it is being wrapped around the repair section.
- Apply hand tension (50% overlap) to prevent any entrapped air and to ensure adequate contact with the substrate and between water-activated layers of UNIGRIP pipe tape. Work quickly as UNIGRIP pipe tape sets at a fast speed.
- After the application is complete, using water-wet gloved hands, smooth the repair as much as possible. Remember, Unigrip pipe tape sets quickly.
- Ensure that a minimum 9-layer wrap of UNIGRIP Pipe tape is applied over the damaged area within its working life.
- If UNIGRIP pipe tape hardens before the entire roll is fully applied, cut, and discard hardened remaining portion of the roll.



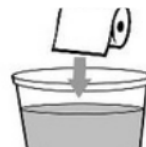
Pressure shut off  
Prior to application  
thoroughly clean  
and roughen the  
damaged area



Knead the epoxy  
putty until a  
uniform grey  
color.



Apply firmly onto  
the  
damaged area.



Soak the pipe tape  
in water for 10  
seconds. Squeeze  
out excess water.



Quickly and firmly  
Wrap the Pipe Tape  
around  
the damaged area.  
9 complete wraps  
with  
50% overlap for a  
secure and durable  
seal.



Keep wetting the pipe  
tape while firmly  
pressing and molding  
until it begins to set,  
to enhance adhesion  
and strength.

# Instruction for use

## 401 Fiberglass Pipe Repair Tape

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### **APPLICATION OF ADDITIONAL WRAPS**

For larger diameters requiring additional wraps of UNIGRIP pipe tape repeat steps in section (2. a-j). Apply additional wraps immediately onto UNIGRIP pipe tape

### **ACTIVE LEAK APPLICATION**

The UNIGRIP pipe tape is not recommended for sealing an active leak. In such cases, complete removal of pressure is recommended. If not possible, pressure should be reduced as high as 40 psi (2.5 bar) and UNIGRIP Pipe Tape should be used in conjunction with Item 301/302 UNIGRIP Putty to seal the active leak before attempting any repair with UNIGRIP Pipe Tape.

Repairing pressurized piping systems with working pressure above 145 psi (10 bar), it is advised that you use the Item 301/303 UNIGRIP Putty in conjunction with the UNIGRIP Pipe Tape (max pressure 450psi (27bar)

### **UNDERWATER APPLICATION**

The UNIGRIP pipe tape can be applied underwater. In this case, the pre-impregnated resin will be activated by fresh or saltwater.

- a) Using gloved hands, open the foil pouch one at a time and remove the UNIGRIP pipe tape roll.
- b) Apply to the underwater repair area as in steps 6, 7 and 8 in section "Instructions for use" above.
- c) Allow the repair to cure.

### **FINAL INSPECTION**

- a) Upon completion of the application, visually inspect the repair to ensure that the UNIGRIP Pipe Tape is smooth without any creases or loose sections.
- b) The ends of UNIGRIP Pipe Tape land on prepared substrate and are tightly adhered.
- c) Apply more UNIGRIP pipe tape if needed in accordance with section 2. above.

### **CURING**

d) UNIGRIP pipe tape should be allowed to ambient or underwater cure for 10 – 15 min. to achieve 90% mechanical strength.

Fully cured within 30 min at 20°C (68°F), full mechanical strength

Always follow best practices when mixing and applying this product. Wear protective gloves during handling and application. Before use, carefully read the full Material Safety Data Sheet (MSDS) for detailed safety guidelines.

# Technical Data Sheet

## 501 Unigrip Exhaust Repair Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Description:

Asbestos-free high-temp resistant one-component cold weld paste / putty. Specifically formulated for repair & sealing of equipment exposed to temperatures up to 2372 °F (1300 °C). Such as repair of cracks and leaks in exhaust pipes, bellow or expansion joints, boilers, and chimneys. And its highly suitable for the assembly and fitting of boiler systems and chimneys as well

### Intended Use:

Repairing cracks, leaks, and surface damage in exhaust systems, bellows, expansion joints, boilers, and chimneys. It is also highly effective in the assembly and fitting of boiler systems and chimney installations, where a durable and heat-resistant seal is critical.

### Technical Data

- Easy to work with
- Asbestos-free
- Non-shrinking
- Seals well
- Adheres well to metal and other materials
- Non-crumbling
- Pasty, does not run
- Base of alkaline silicates and water glass
- Temperature resistance: +1300°C after
- Density approx. 0.33 lbs/ft<sup>2</sup>(1.6 kg/m<sup>3</sup>)
- Working temperature: +5°C - +40°C
- Curing time: 24 hours (Possible to carefully heat up for quicker curing, must be kept below boiling point until fully cured)

### Overpainting:

It is not recommended to overpaint the Unigrip exhaust repair compound, as the product is used in areas with high temperatures. Therefore posing risk of discoloration and the release of fumes from the paint.

### Adhesion:

The sealant adheres to all common materials in exhaust systems and furnaces such as metal, concrete, masonry, firebrick, refractory linings, fiberglass gaskets, etc.

### Packaging:

- Unigrip Exhaust Repair Kit is supplied in a box, including:
- 1 ea. exhaust repair compound in a 10.48 fl. Oz. (310ml) standard single cartridge incl nozzle.
- 1 ea. Application tools (putty knife + spatula)
- 1 ea. Reinforcement steel mesh
- 1 ea. Set of nitrile gloves
- 1 ea. Instructions for use

# Technical Data Sheet

## 501 Unigrip Exhaust Repair Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Shelf Life:

Unigrip Exhaust Repair compound should be stored out of direct sunlight in dry frost free conditions of temperatures between +5°C to +30°C. the cartridge can be stored for 2 years in its original sealed container.

### Disclaimer:

The information and recommendations provided in this product data sheet are based on our internal research and practical experience. However, they do not constitute guaranteed product properties and are not legally binding. As we are not aware of the specific conditions under which the product will be used, we cannot assume responsibility for application results or compliance with processing requirements.

We can only guarantee the consistent high quality of our products. Therefore, we strongly recommend that users perform their own tests to ensure the product meets their specific requirements. Any claims arising from such applications are excluded. The user assumes full responsibility for improper use or application of the product.

### Safety and Health

For additional health and safety information, consult the Safety Data Sheet.

UNIGRIP

# Product Data Sheet

## 601 Super Cast Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Description:

UNIGRIP 601 Chocking and Casting Compound. is a high performance two-component compound based on epoxy. Designed to endure the physical and thermal shock common to marine and industrial environments. Excellent for grouting, chocking or casting of heavy equipment, making it a reliable solution for extending the lifespan of critical assets, infrastructure and machinery.

### Intended Use:

- For grouting in constructions, machines, crane gantries, bearings and the like.
- For filling of horizontal, non-dilatating cracks and joints in concrete.
- For chemical clamping (pouring) of splice bars, anchoring, bolts and fencings.

### Key Features

- Excellent adhesion on steel, concrete and other cementitious substrates
- High compressive strength
- No hardening shrinkage
- Excellent chemical resistance
- Waterproof
- Fast curing (from 0°C)
- Heat resistance 230 °F (110 °C)
- Non-electrical leading
- Standard Color: Grey (RAL colors & colors on request)

### Benefits:

- Ensures that heavy equipment is securely positioned and aligned, reducing the risk of vibrations or shifts during operation.
- Stability improves the efficiency and longevity of the machinery
- Minimized Wear and Tear: distributing the load evenly, chocking or casting reduces stress on components, minimizing wear and tear and extending the life of the equipment.
- Improved Performance: roper alignment and a secure base improve the operational performance of heavy machinery, leading to better precision and productivity
- Cost-Effectiveness: preventing misalignment and reducing damage to equipment lowers maintenance costs and minimizes downtime, saving money in the long term.
- Vibration Damping: Effective chocking materials absorb vibrations, protecting both the equipment and the structure it's mounted on, while also improving operational efficiency.

### Packaging:

- a)UNIGRIP 601-A: 3.3 lbs. (1, 5 kg)
- b)UNIGRIP 601-B: 16.5 lbs. (7.5 kg)

### Shelf Life:

24 month in the original packaging.

Should be stored out of direct sunlight in dry frost free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be 24 months from the date of manufacture. One year minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).

# Technical Data Sheet

## 601 Super Cast Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### UNIGRIP 601 Super Cast- Epoxy Casting Compound

#### Characteristics:

- Solvent-Free – 100% solids formulation with no shrinkage.
- High Strength – Excellent compressive and mechanical strength for heavy-duty applications.
- Dimensional Stability – Maintains precise alignment under load and vibration.
- Chemical Resistant – Withstands oils, fuels, seawater, and a wide range of industrial chemicals.
- Temperature Resistant – Performs reliably across a broad temperature range.
- Strong Adhesion – Bonds effectively to steel, concrete, and other common construction and industrial substrates.
- Vibration & Shock Absorption – Provides damping capacity, reducing wear and fatigue in mounted equipment.
- Easy Mixing & Application – Simple 2-component system with reliable curing.
- Non-Corrosive – Protects against galvanic/bimetallic corrosion.
- Long-Term Durability – Resistant to corrosion, erosion, and mechanical stresses, ensuring extended service life.
- Versatile Use – Suitable for chocking, casting, and grouting of machinery, foundations, and structural components.
- Cures Under Severe Conditions (from 32 °F (0 °C)) – Can be applied and cured in demanding marine and industrial environments

#### Application methods

- Pouring

#### Application temperature

- 50°F (10°C) to 140°F (60°C)

#### Technical properties

##### **Density Mixed product:**

- Approx. 2.2 kg/dm<sup>3</sup> at 20°C (DIN 53217)

##### **Solid content:**

- 100 volume percent (= 100 weight percent)

##### **Mixing Ratio:**

- Component A: 94.7 parts by weight
- Component B: 5.3 parts by weight

##### **Potlife:**

- Approx. 20 minutes of 1 kg of mixed product at 20°C.

##### **Temperature Resistance:**

- 230 °F (110 °C)

##### **Pot life peak exotherm:**

###### **Minutes Degrees Celsius**

- Pot life: 63min
- Peak temperature: 34° Celsius (100 gram)

##### **Recommended layer thickness**

- Max. 3 cm/ layer  
(Layer thicknesses > 3 cm. should be applied in more layers with an interim of approx. 2 hours. In bigger layer thicknesses it is possible that core burning occurs due to the exothermic reaction. On cooling down it is also possible that crack-formation exists by thermal shrinkage.)

##### **Theoretical spreading rate:**

- 0.45 m<sup>2</sup>/kg. (= 1.0 m<sup>2</sup>/l) at 1 millimeter layer thickness.

##### **Practical spreading rate:**

- 2.2 kg/m<sup>2</sup> at 1 millimeter layer thickness (Depending on the conditions of the substrate and method of application, etc.)

##### **Drying time**

(20°C / 65% R.H.)

##### **-Dust-dry**

- Approx. 60 min @20° Celsius 65 RV. 3 cm layer

##### **-Light foot traffic**

- Approx. 120 min @20° Celsius 65 RV. 3 cm layer

##### **-Fully cured**

- 7 days

# Technical Data Sheet

## 601 Super Cast Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### UNIGRIP 601 Super Cast- Epoxy Casting Compound

Technical property	Standard	Values
Specific gravity (mixed product)	DIN 53217	2.2 kg/dm <sup>3</sup>
Mixing Ratio (A:B)	-	94.7 : 5.3
Potlife (1 kg mixed product @ 20°C)	-	20 mins
Hardness Shore D (A+B)	ISO 868	>80
<b>Compressive Strength</b> A + B	E-modulus R Brk	1025 N/mm <sup>2</sup> 106 N/mm <sup>2</sup>
A + B + 25% Silver sand	E-modulus R Brk	855 N/mm <sup>2</sup> 98 N/mm <sup>2</sup>
A + B + 25% Filler granulate 2.0-2.5 mm	E-modulus R Brk	1147 N/mm <sup>2</sup> 94 N/mm <sup>2</sup>
A + B + 50% Filler granulate 2.0-2.5 mm	E-modulus R Brk	450 N/mm <sup>2</sup> 100 N/mm <sup>2</sup>
<b>Bending Tensile strength</b>	DIN 53452	43.2 N/mm <sup>2</sup>
<b>E-modulus</b>	ISO 527	7.200 N/mm <sup>2</sup>
<b>Shear Strength</b>	-	6.8 N/mm <sup>2</sup>
<b>Tensile strength</b>	ISO 527	16.8 N/mm <sup>2</sup>
<b>Linear expansion coefficient</b>	ASTM E 831	5 x 10 <sup>-5</sup> K <sup>-1</sup>
<b>Chemical resistance (24-hrs load)</b>		Not determined (Not used as end coat/layer)

Note: All determinations were made after 7 days of curing at 20°C.

<b>Density</b>	g/cm <sup>3</sup> g/cm <sup>3</sup>	Component A+B (theoretical)	Component A: 2.03-2.20 Component B: 1.02-1.04 (A+B = 2.169)	
<b>Viscosity</b>	mPa·s	MCR 92	Viscous paste	Ca. 350
<b>VOC content</b>	gr/Ltr gr/Ltr	Component A+B calculated	Component A: 0 Component B: 0 (A+B = 0)	

# Technical Data Sheet

## 601 Super Cast Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

	E (N/mm <sup>2</sup> )	Peak (N)	Tension peak (N/mm <sup>2</sup> )	F Crack (N)	Tension break (N/mm <sup>2</sup> )	Displ. peak (mm)	Displ. peak (mm)
Compressive strength	1025.1	546.6	17401	98.008	17401	0.203	0.204
Tensile strength	8124.1	1452.8	24.986	1374.6	23.655	0.441	0.463

<b>Dyna pull on steel</b>	N/mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup>	A+B 1st A+B 2nd A+B 3rd Average	>7.5 n/mm <sup>2</sup> >7.5 n/mm <sup>2</sup> 7.4 n/mm <sup>2</sup> 7.5 n/mm <sup>2</sup>	a/b 10% B 100% -Y 100%	B 90%
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<b>Dyna pull on aluminum</b>	N/mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup>	A+B 1st A+B 2nd A+B 3rd Average	>7.5 n/mm <sup>2</sup> >7.0 n/mm <sup>2</sup> 6.5 n/mm <sup>2</sup> 7.0 n/mm <sup>2</sup>	A 100% A 95% A 70%	B 5% -Y 30%
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	E (Nmm <sup>2</sup> )	Peak (N)	Tension peak (N/mm <sup>2</sup> )	F Crack (N)	Tension break (N/mm <sup>2</sup> )	Displ. peak (mm)	Displ. peak (mm)
Shear adhesion on steel	-	12085	30.212	12085	30.212	0.301	0.301

Temperature resistance	230 °F (110 °C)
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# Technical Data Sheet

## 601 Super Cast Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### UNIGRIP 601 Super Cast- Epoxy Casting Compound

**Application method/s:**

**Pouring**

- Shuttering:  
If necessary place a liquid proof shuttering, which is covered with plastic foil or has been treated with a release agent before Unigrip Super-Cast will be applied.

**Application temperature**

- 0 - 25°C  
Remark: The application of two component products should happen at a relative humidity lower than 85% and a ambient and substrate temperature higher than 0 degrees centigrade; the temperature of the substrate has to be 3 degrees centigrade above dew point. The maximum strength and resistance of the applied system is reached after curing. This corresponds with a drying period of 7 days at 20 degrees centigrade or so much shorter or longer corresponding to a higher or lower curing temperature.)

**Application data:**

- May not be diluted

**Cleaning instructions**

- Brush thinner EP / Spray thinner EP.  
(To be completed prior to curing of the product).

**Mixing instructions**

- Add component B to component A Mix thoroughly and mechanically until a uniform blend is achieved. Transfer the mixture into a clean container and mix again to ensure full homogeneity, avoiding weak spots or incomplete curing caused by insufficient mixing. Note: "Pot life is significantly reduced when mixing larger quantities".

**Systems:**

**Substrate**

**Substrate conditions**

- Steel, Concrete, cementitious and stony substrates.
- The substrate must be clean, dry, grease & dust-free and comply with the normal applicable conditions and requirements.  
Metallic substrates should be free from corrosion, and if necessary apply a primer layer.

**Chemical resistance:**

- Resistance to chemicals, hydrocarbons, Ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids, bases, solvents, and alkalis  
(For full overview of chemical resistance, please see the full UNIGRIP chemical list.)

# Instruction for use

## 601 Super Cast Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### Surface preparations:

Surface preparations must always be in compliance with clients specifications or job requirements.

1. Commonly used standards for surface preparations:

#### Recommended:

- SSPC-SP 10/NACE No. 2. ISO 85011-1:1988 (E) (SIS 05 59 00) Sa 2 1/2

#### Alternative:

- SSPC-SP 11 - Power Tool Cleaning to Bare Metal
- 2. Clean and degrease all surfaces, including cut-outs, rat holes and welds shall be rounded to a radius of at least 2 mm, weld splatter removed.
- 3. Weld seams burned, and rusty areas blast cleaned to min ISO-Sa 2½ or power tool cleaned to min SPSS-Pt3 prior Grit Blasting
- 4. Rough to an angular profile between 75 – 100 microns (in accordance with ISO 8503 parts 1 and 2)
- 5. Abrasive blasting to a cleanliness of white metal (Sa3/SP5) or near-white metal (Sa 2½ /SP10) followed by removal of all abrasive residues.
- 6. The purity of the sandblasting is visual checked.
- 7. Bresle Sampler test for measuring soluble salts / chlorides in the steel surface (ISO 8502-6) limit value <20 mg / m<sup>2</sup>.
- 8. Distance to Dew Point of minimum 3 degrees Celsius throughout the application process.
- 9. Brush away any loose contamination Degrease with Item 903 UNIGRIP Bio cleaner (Cleaner Degreaser) or any other effective cleaner which does not leave a residue e.g., methyl ethyl ketone (MEK).

#### Application method/s: **Pouring**

- Shuttering:  
If necessary place a liquid proof shuttering, which is covered with plastic foil or has been treated with a release agent before Casting Compound N will be applied.

#### Application temperature

- 0 - 25°C  
Remark: The application of two component products should happen at a relative humidity lower than 85% and a ambient and substrate temperature higher than 0 degrees centigrade; the temperature of the substrate has to be 3 degrees centigrade above dew point. The maximum strength and resistance of the applied system is reached after curing. This corresponds with a drying period of 7 days at 20 degrees centigrade or so much shorter or longer corresponding to a higher or lower curing temperature.)

#### Application data:

- May not be diluted

#### Cleaning instructions

- Brush thinner EP / Spray thinner EP.  
(To be completed prior to curing of the product).

#### Mixing instructions

- Add component B to component A Mix thoroughly and mechanically until a uniform blend is achieved. Transfer the mixture into a clean container and mix again to ensure full homogeneity, avoiding weak spots or incomplete curing caused by insufficient mixing. Note: "Pot life is significantly reduced when mixing larger quantities".

#### Systems:

##### **Substrate**

- Steel, Concrete, cementitious and stony substrates.

##### **Substrate conditions**

- The substrate must be clean, dry, grease & dust-free and comply with the normal applicable conditions and requirements.  
Metallic substrates should be free from corrosion, and if necessary apply a primer layer.

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- Resistance to chemicals, hydrocarbons, Ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids, bases, solvents, and alkalis  
(For full overview of chemical resistance, please see the full UNIGRIP chemical list.

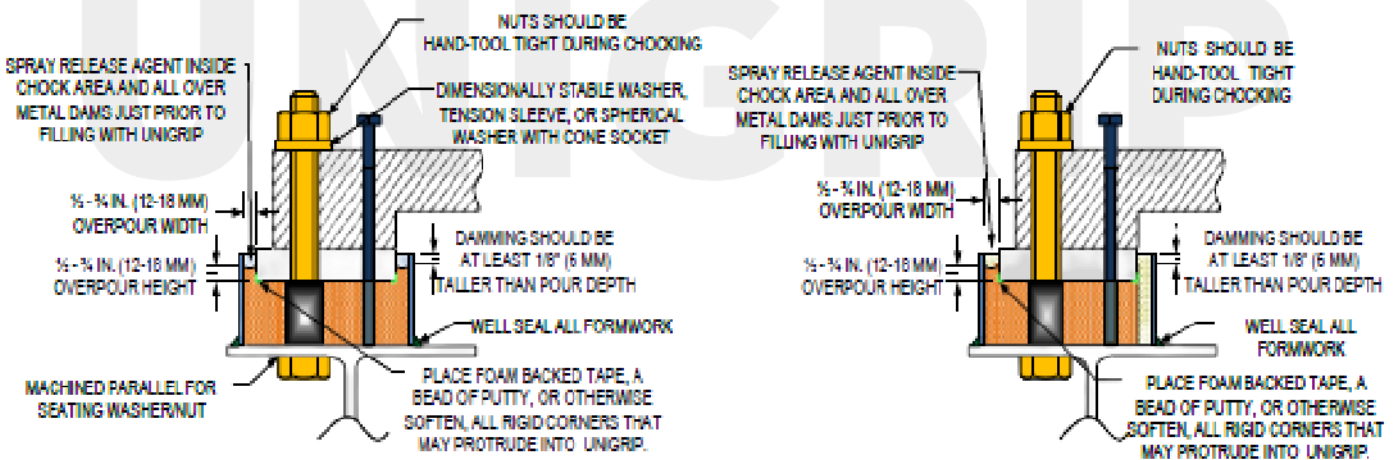
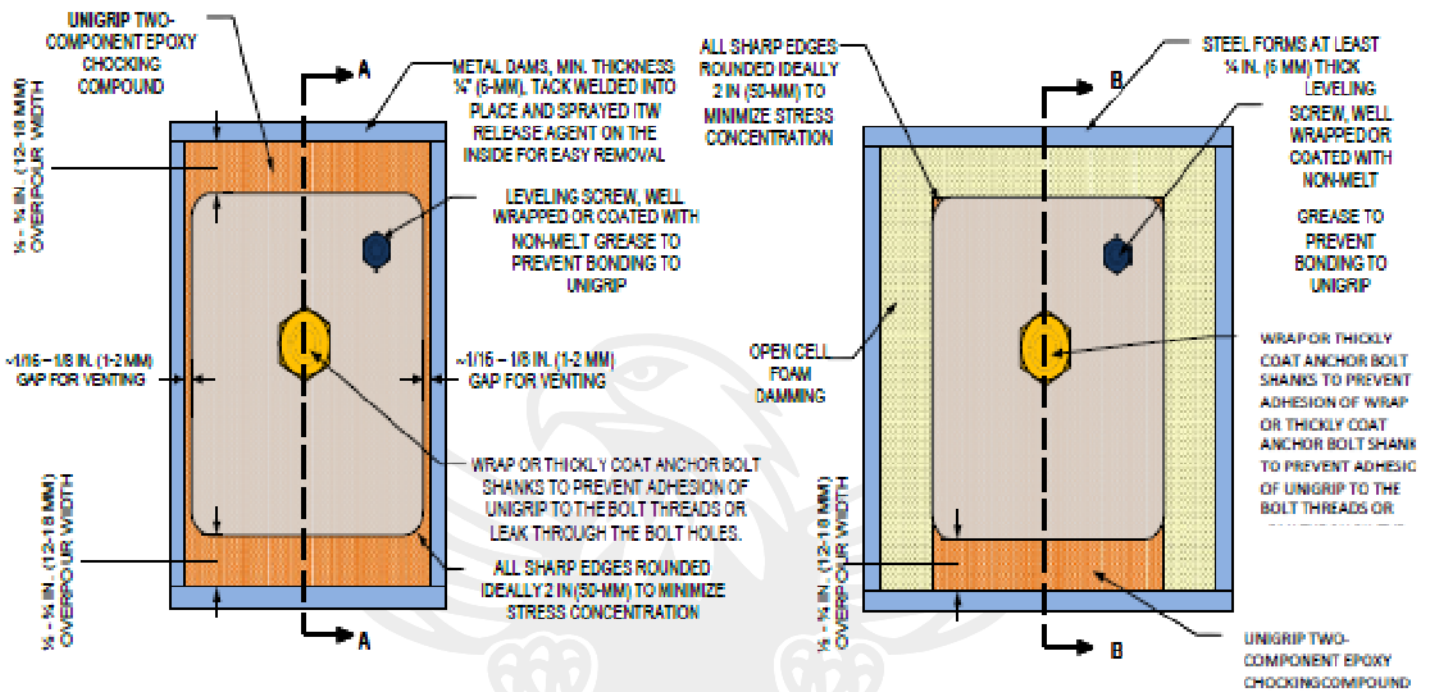
# Instruction for use

## 601 Super Cast Compound

# UNIGRIP

DANTECH ELITE COMPOSITES

### General Chock Configurations

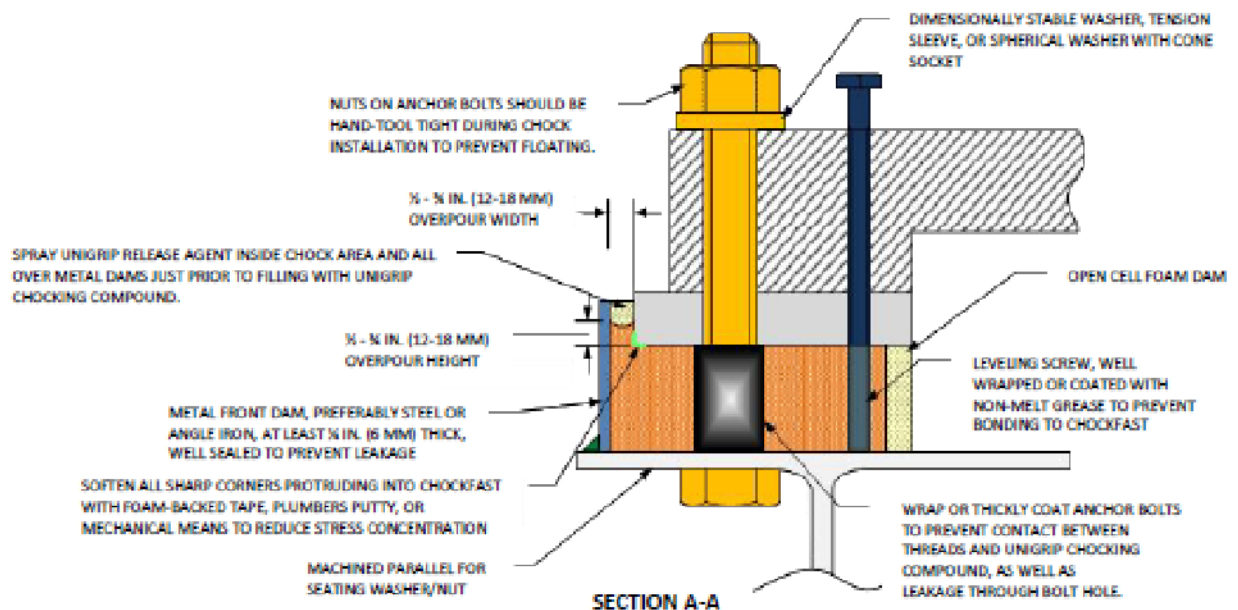
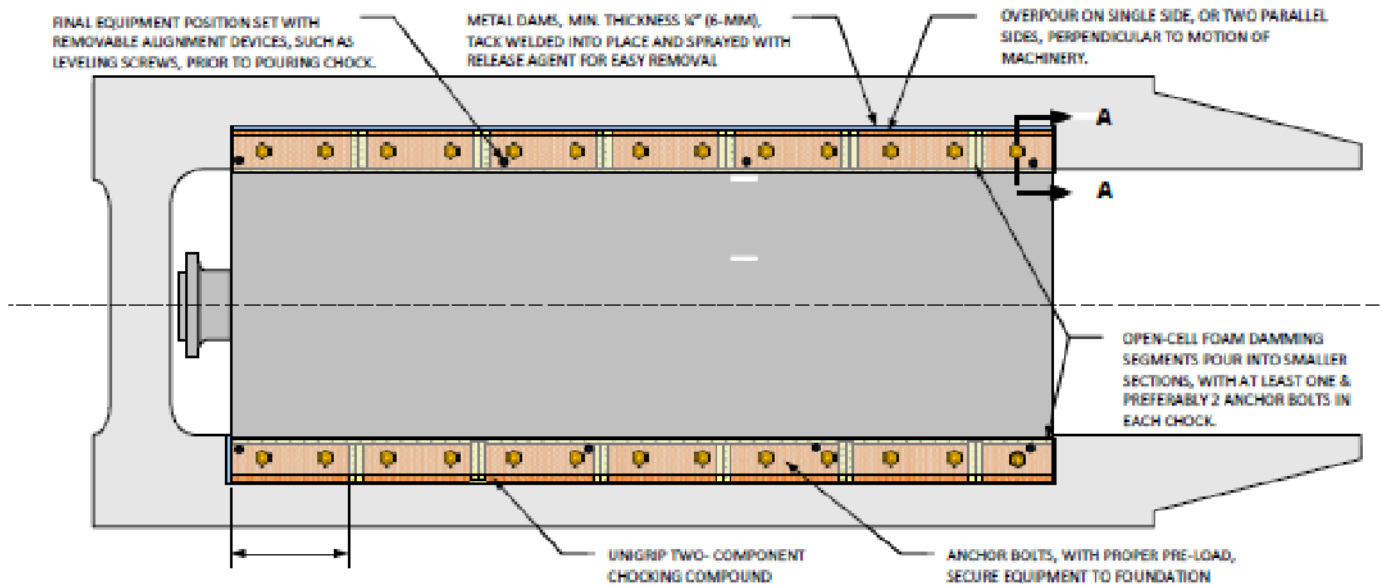


# Instruction for use

## 601 Super Cast Compound

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### General Chock Configurations



#### NOTES

1. SIDE STOPPERS TO BE USED TO MITIGATE TRANSVERSE OR LATERAL MOVEMENT FOR DIESEL ENGINES AND SIMILAR.
2. PLEASE CONTACT YOUR LOCAL REPRESENTATIVE OF OUR WORLDWIDE DISTRIBUTOR NETWORK OR UNIGRIP ELITE COMPOSITES FOR ANY QUESTIONS OR



# 601 Super Cast Compound

UNIGRIP 601 Chocking and Casting Compound. is a high performance two-component compound based on epoxy. Designed to endure the physical and thermal shock common to marine and industrial environments. Excellent for grouting, chocking or casting of heavy equipment, making it a reliable solution for extending the lifespan of critical assets, infrastructure and machinery.

## Key Specifications

- Excellent adhesion on steel, concrete and other cementitious substrates
- High compressive strength
- No hardening shrinkage
- Excellent chemical resistance
- Non-electrical leading

## Availability

601-S 2.2 lbs /15.2 fl oz (1.0 kg/0.45 ltr)

601-L 11 lbs/0.6 gal kit (5 kg/2.26 ltr kit)

## Application Areas

- For grouting in constructions, machines, crane gantries, bearings and the like.
- For filling of horizontal, non-dilatating cracks and joints in concrete.
- For chemical clamping (pouring) of splice bars, anchoring, bolts and fencings.



# Technical Data Sheet

## 701 AquaGuard “Epoxy Coating”

Version 01/2025

**UNIGRIP**  
DANTECH ELITE COMPOSITES

### UNIGRIP 701 AquaGuard - Epoxy Coating

#### Characteristics:

- Solvent-Free – 100% solids formulation with no shrinkage.
- Non-Conductive – Provides reliable electrical insulation.
- Conveniently available in single and dual cartridges for ease of use (pre-mixed)
- Rapid Curing – Fast hardening for emergency repairs and reduced downtime.
- High Mechanical Strength – Excellent compressive and structural performance.
- Strong Adhesion – Bonds effectively to metals and epoxy-compatible composites.
- Temperature Resistant – Maintains performance under elevated temperatures.
- High Durability – Resistant to corrosion, chemical attack, abrasion, and erosion.
- Specially engineered - for application in dry, wet and submerged environments.

#### Application methods

- Spray – Airless or conventional K2 spray equipment recommended for large surface areas.
- Brush – Suitable for stripe coating, edges, welds, and small repairs.
- Roller – For small to medium surfaces and touch-up work; may require multiple coats for full coverage. (We recommend double layer applications- 2 x 7.8 mils / 2 x 200 microns)

#### Technical properties

Density Mixed product:

- Approx. 1,35 kg/dm<sup>3</sup> at 20°C (DIN 53217)

Solid content:

- 100 volume percent (= 100 weight percent)

Mixing Ratio:

- Component A: 70.00 parts by weight
- Component B: 30.00 parts by weight

Potlife:

- Approx. 45 minutes of 1 kg of mixed product at 20°C.

Recommended layer thickness

- 13.8 mils / 350µm wet/dry

Theoretical spreading rate:

- 22.6 sqf / 2,1 m<sup>2</sup>/kg (= 30.13 sqf / 2,8m<sup>2</sup>/ltr) at 13.8 mils / 350µm wet/dry layer thickness

Practical spreading rate:

- Approx. 1.03 lbs (470g/m<sup>2</sup>) at 13.8 mils / 350µm layer thickness  
(Depending on the conditions of the substrate and method of application, etc.)

#### Drying time

(20°C / 65% R.H.)

-Wet in Wet applications

- After approx. 60-90 min (Allow approx.30 minutes between layers before applying the next layer)

-Dust-free:

- After approx. 4 hours

-Re-Coatable<sup>3)</sup>:

- After approx. 60-90 min

-Light traffic:

- After approx. 7 hours

1) Two-layer Epoxy we recommend Wet in Wet applications

2) PU Topcoats-Ensure the epoxy primer is fully cured according to the manufacturer's specified curing time

3) In systems a maximal drying time of 24 hours between the layers; unless a pre-treatment of the substrate takes place.

Shear adhesion on steel

- ≤TBA (N/mm<sup>2</sup>)

Dyna pull on steel N/mm<sup>2</sup>

- ≤6.6 (N/mm<sup>2</sup>)

Dyna pull aluminum N/mm<sup>2</sup>

- ≤7.1 (N/mm<sup>2</sup>)

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	SO (mm <sup>2</sup> )	E (N/mm <sup>2</sup> )	F Crack (N)	R Crack (N/mm <sup>2</sup> )	F Max (N)	R Max (N)	Compression
Compressive strength	159.30	548.2	8.488.5	51.4	8.488.5	51.4	4.03
Tensile strength	45.77	1.933.2	1.081.9	21.4	1.081.9	21.4	2.15

Heat Resistance	Dielectric strength Kv/mm	Shore D @ 20 °C / 24 hrs	Peak exotherm	Shear adhesion R Crack (N/mm <sup>2</sup> )	Average wear above water
248°F (120°C)	10	≥60	47°C after 57min.	TBA	146.2

Pendulum hardness development according to König										
Time (Hrs)	16	24	48	96	168	196	216	240	264	336
Above water	29	43	76	93	95	103	104	112	107	102
Under water	6	7	10	13	17	21	26	25	27	28

**Tested Acc. To:**

Hardness: ISO 1522  
 Tensile strength: ISO 527  
 Compressive strength: ISO 604  
 Adhesion to steel: ISO 4624  
 Density mixed products: DIN 53217  
 Taber test - average wear index: ISO 7784-2  
 Flash point component: DIN 53213

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### UNIGRIP 701 AquaGuard - Epoxy Coating

#### Works on substrates (but not limited) to such as:

- Steel, metal, GRE, Fiberglass and other composite materials Concrete and other stony substrates, and wood.

#### Substrate conditions:

- Above water: The substrate must be clean, grease-free & dust-free and comply with the standard applicable conditions and requirements.
- Underwater: The substrate must be clean, grease-free and comply with the standard applicable conditions and requirements

#### Remark:

- Remark: Treatment and the system of choice must be tailored to the technical capabilities and requirements of the application. For an optimum result a thorough inspection and a technical advice may be required

#### Availability:

- Colour: Red (#B31942, #BFOA30, and #B22234)
- Appearance: Glossy
- Packaging: 9oz (265ml) single cartridge and 38oz (1125ml) dual cartridge, 1.05 gal kit (4 ltr) and 4.23 gal kit (16 ltr)

#### Shelf life and storage:

- -Store in well closed original packaging, cool, dry & frost free
- Shelf life At least 24 months in the original packaging.

#### Flash point:

- Component A: >65°C (DIN 53213)
- Component B: >65°C (DIN 53213)

#### Processing:

- Reducing/thinning is not recommended

#### Mixing instructions:

- Single and dual cartridge: We recommend to Stir gently after dispensing through the static mixing nozzle, prior to application.
- 4 ltr and 16 ltr kits: Add Component B to Component A. Mix thoroughly and mechanically until a uniform blend is achieved. Transfer the mixture into a clean container and mix again to ensure full homogeneity, avoiding weak spots or incomplete curing caused by insufficient mixing. Note: “Pot life is significantly reduced when mixing larger quantities”.

#### Precautions:

- Ensure sufficient ventilation during application and curing.
- Avoid skin contact by using the appropriate protection like gloves, safety glasses, safety shoes, safety clothing, protective creams, etc.
- Do not apply with open fire. No smoking. See also the instructions on the label of the product

#### Safety Measures:

The national legislation for health & safety, environment will apply for the user. Please consult the latest version of the Material Safety Data Sheet of this product.

This product information might be subject of change due to inevitable product modifications. Please consult our Technical service department for the most recent version of the Technical data sheet. Previous versions of this Technical data sheet are no longer valid.