

CLONE ANY PART QUICKLY AND ACCURATELY

Ph 866-945-5742 sales@willrich.com



The Original Formula
Metrology Casting Material
From **FLEXBAR**

ALL METALS

ALL PLASTICS

NON-METALS

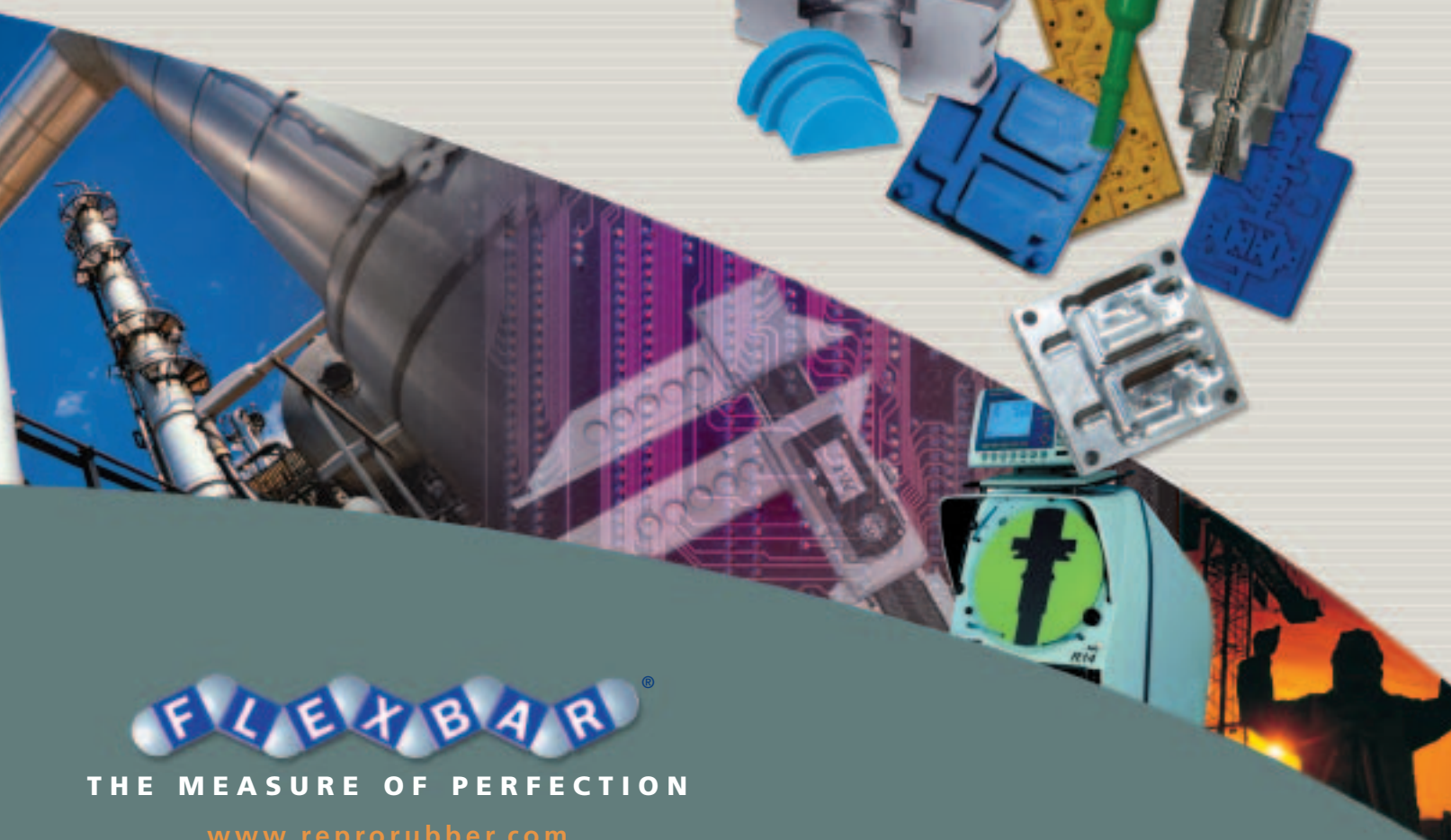
RUBBER

PAPER OR CARDBOARD

WOOD

MARBLE

CERAMIC & GLASS



THE MEASURE OF PERFECTION

www.repro rubber.com

REP-0409



Each Reproduction a Masterpiece With Flexbar *Reprorubber*® Impressions

Flexbar *Reprorubber* is the state-of-the-art metrology-grade, self-curing casting material. Now it's faster and easier to create virtually perfect replicas of both internal and external forms. Offered in three different viscosities, *Reprorubber* kits produce quick "zero shrinkage" reproductions in less than 10 minutes. *Reprorubber* flawless castings make it simple to check internal and external forms for non-destructive inspection and to measure for accuracy – even in hard-to-access part dimensions and surface finish geometrics.

• Flexbar Flexibility

Reprorubber sets the standards for simplicity and versatility. The easy-to-mix, two-part base/catalyst system comes in three viscosities:

1. *Reprorubber* Thin Pour (Light Green) – for internal forms requiring superior flow and detail.
2. *Reprorubber* Medium Body (Orange) – for both internal and external applications.
3. *Reprorubber* Quick Setting Putty (Light Blue) – for internal and external applications and with the ability to withstand temperatures of 600° F (315.5° C) or more.

• Convenient Pre-Filled Cartridges Also Available

The Repru Mix II Quick Dispense Cartridge System eliminates manual mixing. A dual barrel, reusable, rugged dispensing gun utilizes pre-filled *Reprorubber* cartridges in Thin Pour and Medium Orange viscosities. Disposable helix mixing nozzles can be used for each application, making the system waste-free and even more convenient to use.

• Unduplicated Benefits

Reprorubber offers numerous advantages over other hard-copy replicating materials:

- Quick casting – zero shrinkage
- No release agent required — will not stick to part.
- Surface finish replication is exact with excellent optical properties easily checked on an optical comparator or video inspection machine.
- Copies can be recopied from original mold.
- Replicas are permanent – will not leach out, ooze out, or outgas.
- No more 16 hour cure time as with RTV silicones.
- More accurate than all other RTV compounds.

• Industrial Applications

- Metalworking
- Automotive
- Aerospace
- Oil & Gas
- Medical Devices
- Plastics
- Sheet Metal & Stampings
- Forensics
- Art Restorations
- More

Flexbar *Reprorubber*® Self-Curing Formula — For the Measure of Perfection

Reprorubber – the easy metrology casting material:

- Easy to use convenient kits in 3 viscosities.
- Easy to mix non-toxic materials.
- Easy to remove the replica from the mold.
- Easy to cross-section with knife or razor.
- Easy to inspect internal & external forms.
- Easy to check on optical scanner or microscope.





Original Reprorubber® Thin Pour
Final Color - LIGHT GREEN

For internal-shape applications where a thin pour will completely fill the cavity without voids. A complete replica casting is quickly formed.

- Manipulation time is approximately 2 minutes and cure time is approximately 10 minutes.
- Start to finish: approximately 12 minutes.
- Kits include graduated mixing cups, wooden spatulas and instructions.



New Reprorubber®
Orange - Medium Body
Prefilled Cartridges
Final Color - ORANGE

New Medium Body (Medium Viscosity - Medium Durometer) casting material ideal for both internal and external applications. Disposable prefilled dual barrel 50ml cartridges can quickly dispense casting material utilizing the REPRO-MIX II Gun System.

- Mix time: 15-30 seconds and cure time is 5-6 minutes.
- Start to finish: 6-8 minutes.



New Reprorubber® Thin
Pour Prefilled Cartridges
Final Color - LIGHT GREEN

Same viscosity and durometer as Original Reprorubber Thin Pour. Disposable prefilled dual barrel 50ml cartridges can quickly mix and dispense casting material

utilizing the REPRO-MIX II Gun System. For internal-shape applications where a thin pour will completely fill the cavity without voids. A complete replica casting is quickly formed.

- Cure time is approximately 10 minutes.
- Start to finish: approximately 12 minutes.



Original Reprorubber® Quick Setting Putty
Final Color - LIGHT BLUE

Roll two equal-sized balls of catalyst putty and base putty and simply knead them together like dough. Excellent for external shapes. Simply spread over master, pushing down with fingers, and wait for cure 8-10 minutes.

You have 1 or 2 minutes of manipulation time, therefore 12 minutes start to finish.

You can also cast internal shapes and cavities but some pressure should be applied such as a weighted object on top.



FLEXBAR  **Metrology Casting Material**

ORDERING INFORMATION — ORIGINAL MIX YOUR OWN KITS

Original Reprorubber® Thin Pour
Final Color - LIGHT GREEN

Trial Size Kit:

Order No. 16116 Thin Pour 130ml Trial Kit

Standard Size Kits:

Order No. 16135 Thin Pour 380ml Kit

Order No. 16137 Case of 10 each 380ml Kits



Original Reprorubber® Quick Setting Putty
Final Color - LIGHT BLUE

Trial Size Kit:

Order No. 16129 220ml Quick Setting Putty Trial Kit

Other Kits:

Order No. 16130 1 3/4 lb. (520ml) Introductory Kit

Order No. 16131 7 lb. (2150ml) Economy Kit



Quick Dispense Cartridge System Kits

Reprorubber Quick Dispense Cartridge System Kits contain everything you need to easily create Highly Accurate, Zero Shrinkage replicas. Each kit includes 1 each Repru-Mix II Reusable Dispensing Gun, 6 each 50ml Prefilled Reprorubber Disposable Cartridges, 15 Disposable Mixing Nozzles, 2 Micro Injector Snap-On Nozzles, and a Deluxe Fitted Carrying Case.



Kit No. 16305

Reprorubber Orange
Also Available (see below)
Thin Pour (Green) and
Combo Kits.



No. 16301 Green



No. 16306 Orange

Low cost, disposable mixing nozzle tips allow multiple applications.



Snap-on Micro Inject Nozzle (optional) for small holes and cavities

ORDERING COMPLETE KITS:

No. 16300 Reprorubber Thin Pour (Green) Quick Dispense Cartridge System Kit Complete.

No. 16305 Reprorubber Orange (Medium Body) Quick Dispense Cartridge System Kit Complete.

No. 16309 Reprorubber Combo Quick Dispense Cartridge System Kit, Includes 3 each Thin Pour & 3 each Orange.

SYSTEM REFILLS:

No. 16301 Reprorubber Thin Pour (Green) 50ml Cartridge, 1 each.

No. 16302 Reprorubber Thin Pour (Green) 50ml Cartridges, 6 pack.

No. 16306 Reprorubber Orange (Medium Body) 50ml Cartridge, 1 each.

No. 16307 Reprorubber Orange (Medium Body) 50ml Cartridges, 6 pack.

No. 16311 Repru-Mix II Dispensing Gun (reusable).

No. 16313 Repru-Mix II Helix Mixing Nozzles, 15 Pack.

No. 16316 Repru-Mix II Helix Mixing Nozzles, 100 Pack.

No. 16315 Quick Dispense Cartridge System Fitted Case (without contents).

No. 16314 Micro Injector Snap-On Nozzle, Pack of 15.

PHYSICAL PROPERTIES AND APPLICATIONS

	REPRORUBBER THIN POUR	REPRORUBBER MEDIUM BODY ORANGE	REPRORUBBER QUICK SETTING PUTTY
Mix Time	15-30 seconds	15-30 seconds	Approximately 1 minute
Working Time (Manipulation Time)	2 minutes	2.5 minutes	1-2 minutes (from beginning of mix)
Setting Time (at room temperature)	10-15 minutes	5-6 minutes	8-10 minutes
Permanent Deformation	0.2%	0.3%	0.3%
Dimensional Stability	Less than 0.50%	Less than 0.40%	Less than -0.25%
Tear Strength	44psi	300psi	105psi
Elongation	60% at break	70% at break	6.3% at break
Durometer (Shore A-2)	30 (at 15 minutes)	40 (at 10 minutes)	50 (at 7 minutes)
Temperature Stability	1 week @ 23°C (72°F)	1 week @ 23°C (72°F)	1 week @ 23°C (72°F)
Detail Reproduction	EXCELLENT	EXCELLENT	EXCELLENT

APPLICATIONS

You can take impressions of:

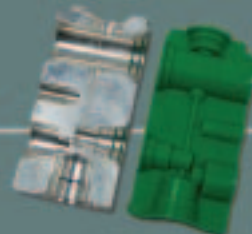
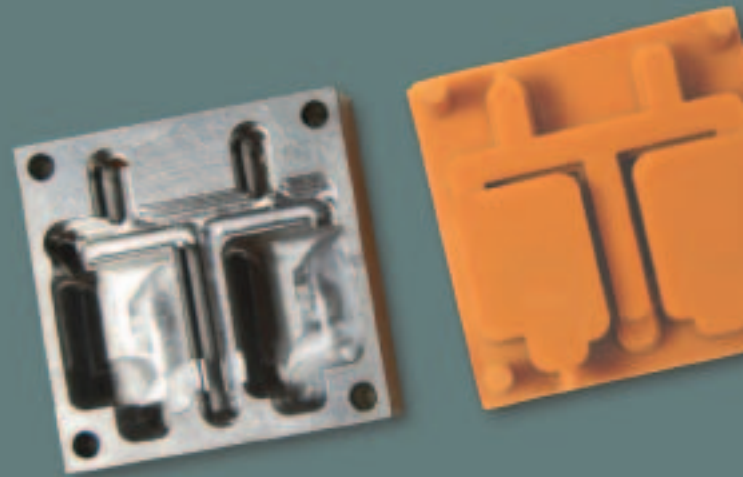
- ALL METALS
- NON METALS
- PAPER OR CARDBOARD ITEMS
- WOOD, MARBLE, ETC.
- ALL PLASTICS
- RUBBER
- CERAMIC AND GLASS ITEMS

Other Uses Include:

- Prototypes of rubber type components such as gaskets, washers, etc.
- As a mask for high temperature plasma spray of metallic coatings.
- Making joints where flexibility is required.
- Fixturing where semi-rigid structure is desired.

PHYSICAL ADVANTAGES OVER THE HARD-COPY REPLICAS

- Replica is easy to remove – even if there are under cuts or grooves.
- Cross-sectioning of replica is easily accomplished with a knife or razor.
- It can then be checked on an optical comparator or microscope.
- Surface finish replication is exact with excellent optical properties.
- *Reprorubber* copies can be recopied (copy from a “female mold” yields a male-shaped replica).
- Replicas are permanent – will not leach out, ooze out, or outgas.
- NO MORE 16 HOUR CURE TIME AS WITH RTV SILICONES.
- MORE ACCURATE THAN ALL OTHER RTV COMPOUNDS.
- *REPRORUBBER* PUTTY will withstand up to 600°F (or more).



For additional information and applications, please visit our website, www.reprorubber.com.

Corporate History

Flexbar's Metrology Grade Replication Materials have been used by a wide range of manufacturing and service industries for over 40 years. Flexbar first developed its Facsimile Measure Image "Hard Copy" Quick Setting Plastic Compound to accurately reproduce a wide range of internal, external and surface finish geometries. This method has become very popular for checking forms for non-destructive inspection and measuring hard to access part dimensions.

In the early 1980's Flexbar developed and introduced its *Reprorubber* Metrology Grade Self Curing Casting Materials, also providing virtually perfect replica castings of both internal and external forms. Supplied in 3 different viscosities, these easy to use kits produce quick "Zero Shrinkage" reproductions in less than 10 minutes and do not require a release agent of any kind in most applications.

The 3 available *Reprorubber* viscosities include *Reprorubber* Thin Pour, *Reprorubber* Medium Body Orange and *Reprorubber* Putty. Each version consists of an easy to mix two-part base/catalyst system which produces rubber-like replica casting ranging from 30 to 50 durometer on the Shore A-2 scale.

The Thin Pour Green viscosity is ideal for internal forms requiring superior flow and detail. The Medium Body Orange and Quick Setting Putty viscosities can be used for both internal and external applications such as gears, threads, grooves and more.

In 2007 Flexbar introduced its new Repru-Mix II Quick Dispense Cartridge System for both *Reprorubber* Thin Pour and *Reprorubber* Orange grades. Utilizing a reusable dual barrel dispensing gun, the system works with disposable prefilled *Reprorubber* Cartridges in both Thin Pour and Orange viscosities. Disposable helix mixing nozzles can be used for each application, making the system waste-free and convenient to use.

Reprorubber is now commonly used in a diverse cross-section of manufacturing industries including metalworking, automotive, aerospace, oil and gas, medical device, injection molded plastics, sheet metal, stampings and more. The product in all of its forms has become an important tool for today's increasing demands for inspection and measurement as well as design and manufacturing processes.



Innovation, Quality and Service... Since 1965

For over forty years we at Flexbar have led the way in offering unique and innovative products. With our Full Line Catalog, we are proud to continue to offer an expanding array of more sophisticated products in the areas of metrology, inspection, and machine tool accessories. Our products range from our world famous metrology grade replica and casting materials, Facsimile® and Reprorubber®, precision gages and testers, industrial borescopes, and optical and video inspection/measurement systems.

Request Your Free Catalog Today!



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