

PRODUCT SPECIFICATION SHEET:

REFLEX 4401 GP 60

PRODUCT DESCRIPTION

REFLEX 4401 GP 60 is a two component fast curing solvent free urethane elastomer. The product has been specifically developed for repairs to a wide range of rubber surfaces such as Nitrile, Neoprene & Natural rubber.

TYPICAL APPLICATIONS

The product has been developed for repairs and casting of conveyor belts, gasket sealing, rubber components, cutlass bearings, valve seats, lining of process equipment.

GENERAL PRODUCT INFORMATION

Appearance

Base: Black Paste
Activator: Opaque Paste
Mixed: Black Paste

Mixing Ratio

By weight: 3:1
By volume: 3:1

Density

Base: 1.05
Activator: 1.05
Mixed: 1.05

Solids content

100%

Slump Resistance

Nil at 2cm

COVERAGE RATE

A 420 gm cartridge will cover 0.4m² at a nominal thickness of 1mm.

HEAT RESISTANCE

Suitable for long term water immersion at temperatures up to 50°C and intermittent contact with water up to 80°C

Resistant to dry heat up to 120°C

STORAGE LIFE

The shelf life of the product is typically 5 years if unopened and stored in normal dry conditions (15-30°C/ 60-86°F). Once opened replace the lid firmly and store as above

CURE TIMES

At 20°C (68F°) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated.

Usable life

10°C 10 minutes
20°C 5 minutes
30°C 2.5 minutes
40°C 1 minutes

Minimum overcoating time

10°C 2 hours
20°C 1 hours
30°C 30 minutes
40°C 15 minutes

Maximum overcoating time

10°C 72 hours
20°C 36 hours
30°C 18 hours
40°C 9 hours

Water/ sea water immersion

10°C 6 days
20°C 3 days
30°C 36 hours
40°C 18 hours

Chemical immersion

10°C 14 days
20°C 7 days
30°C 3.5 days
40°C 1.75 days

CHEMICAL RESISTANCE

The product resists attack by a wide variety of inorganic acids, alkalis, salts and organic media. For more detailed information on chemical resistance please contact your local Repco Distributor.

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MECHANICAL PROPERTIES

Testing is typically done under laboratory conditions at a temperature of 20°C unless otherwise specified.

Tensile Strength when tested in accordance with ASTM D412 on abrasive blasted mild steel with a 75 micron profile will typically be:

70kg/cm² 200 pli

Tear Strength when tested in accordance with ASTM D624 on abrasive blasted mild steel with a 75 micron profile will typically be:

3,570kg/cm² 1,000 psi

90 Degree Peel Adhesion when tested in accordance with ASTM D413 on abrasive blasted and primed with Repflex 4402 GP Primer

2850kg/cm² 160 psi

180 Degree Peel Adhesion to rubbers when tested in accordance with ASTM D429 roughened with an MBX and primed with Repflex 4402 GP Primer

Neoprene	696 kg/m	39 pli	(TF)
Butyl	357 kg/m	20 pli	(CS)
Nitrile	393 kg/m	22 pli	(CS)
Natural	178 kg/m	10 pli	(CS)
EPDM	428 kg/m	24 pli	(CS)

TF = Tape failure

CS = Cohesive failure substrate

Taber Abrasion Resistance Tested to ASTM D4060

1 day cure at 20°C
H18 Wheels Dry

365 CU mm loss/1000 cycles

Elongation when tested to ASTM D412

400%

Hardness Shore A

Tested to ASTM D2240 typical value will be:

64

TECHNICAL SUPPORT

Zoom Corrosion Technology offer complete technical support and assistance, from discussing application requirements to training approved local contractors. For further information please contact a REPCO representative or your nearest REPCO authorised dealer.

HEALTH AND SAFETY

Please refer to the product safety data sheet for detailed information on handling, storage, shipping and disposal.

Legal Notice: The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Zoom Corrosion Technology accepts no liability arising out of the use of this information or the product described herein.

RepcO products are manufactured for:

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