



# TECHNICAL DATASHEET – FLEXANE 60 LIQUID A THOUGH POURABLE RUBBER COMPOUND

**ORDERING INFORMATION** 

STOCK NO.: 15200 PACKAGE SIZE: 500g

STOCK NO.: 15210 PACKAGE SIZE: 5kg

# **DESCRIPTION**

A tough pourable rubber compound for part encapsulation, rugged flexible moulds andpatterns, holding fixtures and forming die pads. It can also used to form equipment linings that are abrasion resistant and noise reducing.

# **RECOMMENDED APPLICATIONS**

- Pads for press brake forming
- Lines process equipment to dampen noise
- Protects equipment surfaces from wear and corrosion
- Pouring concrete expansion joints
- Casting flexible parts and moulds

# **FLEXIBILITY**

High

# **PRODUCT DATA**

### **TYPICAL PHYSICAL PROPERTIES**

COLOUR	Black
MIX RATIO BY VOLUME	1.6:1
MIX RATIO BY WEIGHT	1.67:1
% SOLIDS BY VOLUME	100
POT LIFE AT 25°C/ MINS	15
SPECIFIC VOLUME CC/KG	956
CURED SHRINKAGE CM/CM	0.0005
SPECIFIC GRAVITY	1.046
TEMPERATURE RESISTANCE	Wet 49°C Dry 82°C
COVERAGE	0.956m²/Kg @ 1mm
CURED HARDNESS / SHORE A	65
TENSILE STRENGTH / MPA	5.1
TEAR RESISTANCE / N/MM	19
ELONGATION / %	300
DIELECTRIC STRENGTH / KV/MM	14
THICKNESS PER COAT / MM	As Required
FUNCTIONAL CURE TIME / HOURS	16
RECOAT TIME / HOURS	12-24
MIXED VISCOSITY / CPS	5,000

Revised: 05/2018



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# CHEMICAL RESISTANCE - 7 DAYS ROOM TEMPERATURE CURE (30 DAYS) - TESTING CARRIED OUT 30 DAYS IMMERSION AT 21°C

	POOR	FAIR	VERY GOOD	EXCELLENT
AMMONIA			•	
CUTTING OIL		•		
ISOPROPYL ALCOHOL	•			
GASOLINE (UNLEADED)	•			
HYDROCHLORIC ACID 37%			•	
METHYL ETHYL KETONE (MEK)	•			
METHYLENE CHLORIDE	•			
SODIUM HYPOCHLORITE 5% (BLEACH)			•	
SODIUM HYDROXIDE 50%			•	
SULPHURIC ACID 98%			•	
XYLENE	•			

Excellent = +/- 1% weight change, Very Good = +/- 1-10% weight change, Fair = +/- 10-20% weight change, Poor = > 20% weight change

#### **APPLICATION INFORMATION**

#### **CURE**

Allow the Flexane to cure for 6 hours before returning equipment to light service. Once cured, the repair may be ground flush using a 24 or 36 grit open coat-sanding disc. Be careful to keep the grinder moving and do not overheat the work surface. De-mould Flexane Liquids in approximately 5-10 hours.

Note: To shorten the cure time of all Flexanes, add Devcon's Flexane Accelerator (see Flexane Accessories Technical Data Sheet).

# SURFACE PREPARATION

**METAL SURFACES:** Thoroughly clean the area that is to be repaired, rebuilt or lined by using Devcon Fast Cleaner 2000 Spray/Cleaner Blend 300. All oil, grease and dirt must be removed before applying Flexane material. All surfaces must be roughened by grinding with a coarse wheel or an abrasive disc pad.

**RUBBER SURFACES:** Thoroughly clean the rubber area with an abrasive pad and Devcon Fast Cleaner 2000 Spray/ Cleaner Blend 300. You may take a grinding wheel and roughen the surface. The rubber surface must be coarse and free from oil and dirt clogged in the 'pores' of the rubber. Using Devcon Fast Cleaner 2000 Spray/Cleaner Blend 300, wipe or roughen surface until the colour of the rubber substrate no longer appears on cloth. The rubber should look new or a deeper black in colour.

**CONCRETE SURFACES:** Concrete being a very porous substrate requires multiple cleaning. Degrease the area with Devcon Fast Cleaner 2000 Spray/Cleaner Blend 300 and rinse the area. A power washer or steam cleaner is useful for quicker and efficient cleaning. Let the floor dry thoroughly before applying the Primer and Flexane.

#### **PRIMING SURFACES**

**METAL SURFACES:** On metal surfaces apply two coats of FL-10 Primer and allow to dry tack free for 15 minutes.

**RUBBER SURFACES:** On rubber and urethane surfaces apply a coat of FL-20 Primer and allow to dry tack free for 15 – 20 minutes. On porous rubber surfaces, it may be necessary to do multiple coats.

**CONCRETE SURFACES:** Concrete being a "porous" substrate may need multiple coats for proper adhesion. Let Primer dry for 30 minutes between coats.

**WOOD & FIBREGLASS:** Use FL-20 Primer for all Wood and Fiberglass products. Softwoods will need two coats because of their absorption characteristics.

**IMMERSION SUBSTRATES:** Use Primers FL-10 and FL-20 to coat any metal substrate that will be immersed in any aqueous solution. First apply the FL-10 Primer and let it dry for 60 minutes. Next coat with FL-20 Primer. Let it dry for 30 minutes before applying the Flexane material

# **MIXING**

Add curing agent to the Flexane resin container and stir vigorously for 2 minutes. Ensure that the two parts are fully mixed by scraping along the bottom and side of the container. For quantities larger than 500g use an electric drill and mixer to mix the Flexane material. Make sure the mixer attachment is completely submerged during the mixing process. If not you will be mixing in large amounts of air and this will sometimes cause bubbles in the finished product.



# **TECHNICAL DATA SHEET - FLEXANE 60 LIQUID**

# APPLICATION MOULDMAKING

- First ensure good surface preparation and coat the entire "box" with Devcon's Release Agent. Let it dry for 10 minutes. Apply a second coat, and let this dry for 10 minutes.
- Now take a small brush and apply a thin coat of mixed product over the surface. This helps to alleviate any "air bubbles" in the curing process.
- Then pour the liquid into the "box". It is recommended to tilt the "box" slightly onto one side when pouring to let the air escape easily and produce no "blow holes" in the finished product.
- After the Flexane has been poured, it helps to "wave" a
  hot air gun back and forth over the top of the mould to
  help release air bubbles that want to get to the surface.
- De-mould time is 8 hours when cured at room temperature.

#### LINING APPLICATIONS/NOISE REDUCTION

Flexane has an outstanding quality of having "elasticity". This is beneficial for applications requiring impact resistance such as feeder bowls in production plants, chutes in cement, coal or mining plants and cyclones. Lining applications require a good depth of coating along with the proper primer for good adhesion.

- For good adhesion follow the cleaning method for the appropriate surface. A good surface profile is required for excellent adhesion.
- Abrade the surface of the wear area with an abrasive disc pad and clean thoroughly.
- Apply a coating of FL-10 Primer and allow it to dry thoroughly and follow with a coating of FL-20 Primer. Let it dry for 30 minutes before continuing.
- Before applying the Flexane material ensure the substrate
  has a defined "butt joint". Leaving an edge will create the
  possibility of the aggregate "undercutting" the material.
  Apply the Flexane to the substrate. Apply at least 1/16"
  of the material if possible for better wearresistance to the
  substrate.

Note: Applying multiple coats to the substrate will "build up" the wearing ability of the coating.

#### **SHELF LIFE & STORAGE**

A shelf life of 2 years from date of manufacture can be expected when stored at room temperature (22°C) in their original containers.

#### **PRECAUTION**

For complete safety and handling information, please refer to Material Safety Data Sheets prior to using this product.

#### WARRANTY

ITW Performance Polymers will replace any material found to be defective, because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

#### **DISCLAIMER**

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.

For product information visit www.devconeurope.com alternatively for technical assistance please call +353 61 771 500.