Devcon®



TECHNICAL DATASHEET – FLEXANE HIGH PERFORMANCE BRUSHABLE

Revised: 05/2018

BRUSHABLE SYSTEM THAT PROTECTS AGAINST IMPACT, ABRASION, SHOCK, WEAR, NOISE AND IMPACT

ORDERING INFORMATION

STOCK NO.: 15350
PACKAGE SIZE: 500g

DESCRIPTION

Brushable system that protects against impact, abrasion, shock, wear, noise and impact.

RECOMMENDED APPLICATIONS

- Forms protective, sound-deadening linings on new and in-service equipment
- Protects equipment surfaces from wear and abrasion

PRODUCT DATA

TYPICAL PHYSICAL PROPERTIES

COLOUR	Black
MIX RATIO BY VOLUME	4:1
MIX RATIO BY WEIGHT	4.55:1
% SOLIDS BY VOLUME	90
POT LIFE AT 25°C/ MINS	45
SPECIFIC VOLUME CC/KG	938
CURED SHRINKAGE CM/CM	0.23
SPECIFIC GRAVITY	1.07
TEMPERATURE RESISTANCE	Wet 49°C Dry 82°C
COVERAGE	0.938m²/Kg @ 1mm
CURED HARDNESS / SHORE D	86 A
DIELECTRIC STRENGTH / KV/MM	14
TENSILE STRENGTH / MPA	24.2
TEAR RESISTANCE / N/MM	70
ELONGATION / %	600
THICKNESS PER COAT / MM	1-2
FUNCTIONAL CURE TIME / HOURS	24
RECOAT TIME / HOURS	4-6
MIXED VISCOSITY / CPS	40,000

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. Allow the Flexane High Performance Brushable to cure for 24 hours before application to full operation.

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

SURFACE PREPARATION
GENERAL SURFACE PREPARATION

METAL SURFACES: Thoroughly clean the area that is to be repaired, rebuild 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 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 fibreglass products. The 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.

APPLICATION 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.
- Next apply a coating of FL-10 Primer. Let it dry thoroughly and follow with a coating of FL-20 Primer. Let 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 wear resistance 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 (22ºC) in their original containers.

PRECAUTION

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

WARRANTY

ITW Performance Polymers will replace any material found to be defective. As 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
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