

3M™ Scotchkote™ Urethane Elastomer 60EG 533

Updated
Supersedes

July 2014
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Data Sheet and Application Guide

Product Description

Scotchkote Urethane Elastomer 60EG 533 has been specifically developed as an elastomeric repair system with a high degree of flexibility for rebuilding and resurfacing rubber components.

Product Features

- Physical properties equal to factory produced rubbers.
- Designed for application by trowel or spatula at thicknesses upto 6mm.
- Good cold vulcanising capabilities.
- Suitable for use to repair conveyor belts, rollers, gaskets, hoses, off road tyres etc.

General Application Steps

1. Remove oil, grease and loosely adhering deposits and degraded rubber.
2. Thoroughly abrade the surface, to produce a rough fibrous finish.
3. Apply Scotchkote Urethane Elastomer 60EG 533 to the required thickness.
4. Allow to cure.
5. Visually inspect the coating for defects.
6. Repair all defects.

Properties

Property	Value
Colour	Black
Ratio	2:1 By volume 2:1 By weight
Drying & Cure times at 20°C (68°F)	
Useable life	20 mins
Initial Set	3 hours
Machining	16 hours
Full Mechanical	3 days
Volume Solids	100%
V.O.C (As Supplied)	Nil
Film Thickness	Upto 6mm.
Volume Capacity	910cc (55 cu ins) per kilo
Performance Data	
Tensile Strength	6N/mm ² (900 psi) (ASTM D412)
Dielectric Strength	16KV/mm (ASTM D149)
Elongation	600% (ASTM D412)
Shore A Hardness	60 (ASTM D2240)
Dry Heat Resistance	120°C (250°F) (ASTM D2485)
UV Resistance	No loss in properties after 1000 hours exposure (BS 3900:F3)
Tear Strength	20N/mm (150pli) (ASTM D624)
Maximum Operating Temperature	80°C (176°F) - Dry 50°C (122°F) - Wet
Peel Adhesion (Concrete & Steel)	9kg/cm (50pli) - cohesive failure in product (ASTM D903)



Application Procedures for Scotchkote Urethane Elastomer 60EG 533

Surface Preparation

All existing dirt, oil and grease should be removed and the surface wiped with 3M™ Scotchkote™ Cleaner 020

Any areas of frayed or fragmented rubber should be cut away to provide a sound repair area. Smooth surfaces, including metals, should be mechanically etched to produce a good profile, with abrasive blasting being preferred for metal substrates. Rubber surfaces are best roughened using a stiff wire brush / comb. Edges of repair areas of belts, hoses, tyres etc. should be undercut.

All loose dust and particles should be blown clear of the prepared surface. On certain repairs such as gaskets and castings where one surface is not required to bond to the Scotchkote Urethane Elastomer 60EG 533, these surfaces should be treated with 3M™ Scotchkote™ Release Agent 035.

Priming

All areas to be repaired or resurfaced should be first primed with 3M™ Scotchkote™ Urethane Elastomer Primer 075. The primer should be applied with a soft bristled brush to give an even, but low coating thickness, taking care to avoid ponding of the primer. The primer should be allowed a minimum of 60 minutes and a maximum of 8 hours at 20°C before applying Scotchkote Urethane Elastomer 60EG 533.

Product Mixing

Scotchkote Urethane Elastomer 60EG 533 is a two component material which must be mixed together prior to use.

Two volumes of Part A (Base) and one volume of Part B (Activator) should be measured onto a clean surface and the two components mixed thoroughly to produce a smooth streak free material. Thorough mixing is extremely important and once the material appears mixed, a further period of mixing should be carried out to ensure there is no unmixed material.

The mixed material should be used within 20 minutes of mixing at 20°C.

Application Procedures

The mixed material should be pressed firmly onto the prepared area working the product into cracks or defects on the surface. Where necessary, reinforcement tape should be bedded into the material and overlapped to provide multi-layer reinforcement.

All equipment must be cleaned IMMEDIATELY after use with 3M™ Scotchkote™ Cleaner 020.

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Packaging and Storage

Supplied in 0.60kg and 3 kg packs

Use within 12 months of date of manufacture. Store in original sealed containers at temperatures between 5°C and 32°C.

Handling and Safety Precautions

Read all health hazard, precautionary and first aid statements found in the Material Safety Data Sheet, and/or product label prior to handling or use.

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Important Notice

All statements, technical information and recommendations are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using the 3M™ Scotchkote™ Product, you must evaluate it and determine if it is suitable for your intended application. Because conditions of product use are outside of 3M control's and vary widely you assume all risks and liability associated with such use. Any product related statements not contained in current 3M publications, or any contrary statements contained in your purchase order, shall have no force or effect unless expressly agreed to in writing by an authorised officer of 3M.

Warranty; Limited Remedy; Limited Liability.

3M warrants that the 3M™ Scotchkote™ Product will conform to 3M published specifications upon shipment. If the product is proven not to have met the specifications your exclusive remedy within 12 months of sale by 3M of the product and 3M's sole obligation will be, at 3M's option, to replace the Product or to refund the purchase price of the Product. Except where prohibited by law, this warranty is made in lieu of all other warranties, express or implied, including, but not limited to, any implied warranty of suitability or fitness for a particular purpose, or those arising from a course of dealing, custom or usage or trade.

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