

JOINTING COMPOUNDS APPLICATION GUIDE



OVER
100 YEARS
OF QUALITY

Introduction

Our pipework systems jointing compounds are used for sealing screwed joints from the ingress or egress of fluids or gases. Jointing compounds are manufactured from various substances which mixed together produce a paste-like material of different viscosities and properties. They are primarily used on steel pipework systems.

Application

Prior to applying the jointing compound it is most important that both male and female threads are clean i.e. all traces of cutting fluid, rust, paint, grease and any other contaminant is removed before applying fresh material. Under normal pipe fitting practice, jointing compound is applied to the male thread and is usually reinforced with a small quantity of hemp - this is not the case on natural gas duties where only compound (or Permanite GT PTFE Tape) is allowed on pipe sizes smaller than 2" (British Gas Spec. IM/16 and BS6891). Hemp should not be used on potable water applications under WRAS regulations. Any excess compound which extrudes around the joint, when it has been assembled, should be wiped clean.

Maximum Temperature	BOSS™ White	BOSS™ Universal	BOSS™ Gastite
	284°C	120°C	150°C
Acetone			
Aeroshell 750 (70°C)			
Alcohol		✓	
Alipatic Solvents			
Ammonia (to 20°C)		✓	
Brine	✓	✓	✓
Butane			
Carbon Dioxide	✓	✓	✓
Compressed Air	✓	✓	✓
Concentrated Hydrochloric Acid (to 20°C)			
Diesel Fuel (70°C)			✓
Dilute Alkalis			
Engine Oil (70°C)		✓	✓
Ethyl Acetate			
Fuel Oil			
Genklene (to 20°C)			
Heating Fuel			
Helium		✓	
Hydraulic Oil			
Hydrogen Peroxide			✓
Industrial Meth		✓	
Industrial Meths (20°C)			
ISO Propyl Acetate			
ISO Propyl Alcohol			
Kerosene			
Low Pressure Saturated System			
Lower Alkyl Esters			
LPG Low Pressure		✓	✓
Methanol			
Methylated Spirits			
Motor Oil			
N.Propanol			
Natural Gas	✓	✓	✓
Nitrogen	✓	✓	✓
Paraffin		✓	
Petrol		✓	
Propane			
Refrigerants		✓	
Solvents - Hydrocarbon			
Steam (to 10 bar)	✓	✓	✓
Steam (to 100 bar)			
Steam (to 50 bar)			
Tivela A			✓
Toluene (to 20°C)			
Town Gas	✓	✓	✓
Vegetable (Castor) Oil (to 70°C)			
Water - general hot and cold	✓	✓	✓
Water - potable hot and cold		✓*	
Water - sea (to 20°C)	✓	✓	✓
Water/Glycol (to 70°C)		✓	✓
Water Spirit (to 20°C)		✓	✓
20% Aqueous Sodium Hydroxide (to 20°C)			
50% Phosphoric Acid (to 20°C)			
50% Sulphuric Acid (to 20°C)			
Oxygen / Hydrogen / Downanol PM (Glyco Ethyl)	Very hazardous - refer to British Oxygen Co. (BOC)		
Fluorine Dioxide / Chlorine Trifluoride / MEK / Hydrofluoric Acid / Sodium Potassium	Very specialised areas. BOSS™ cannot offer any jointing compounds for these mediums. Jointing normally needs welding		



* BOSS™ Universal is a WRAS approved product which is suitable for cold potable water applications (up to 23°C).