



MasterSeal 6689 AS

Waterproofing system based on an antistatic two component elastic polyurea membrane for concrete surfaces exposed to chemical or mechanical loads.

Fields of application: Secondary containment storing of flammable or explosive goods.

		consumption approx.:	
	Primer	MasterSeal P 770 white-translucent, Xolotec-based, 2-component	0,3-0,5 kg/m ²
	Optional/ Scratch primer**	MasterSeal P 770 filled 1 : 0,5 with oven dried silica sand, size 0,1-0,3 mm	0,6-1,0 kg/m ^{2*}
	Grounding	Copper strips (distance max. between 2 strips: 10 m)	
	Conductive primer	MasterTop P 687WAS Black, water-borne, 2 component EP	0,12-0,15 kg/m ²
	Membrane	MasterSeal M 689 AS Pigmented, 2-component 100% pure Polyurea, spray applied	min. 2,3 kg/m ²

Note: Should you exceed the re-coating interval or in case of heavy mechanical loads, you have to broadcast sand at the surface of primer/scratch primer. Broadcasted surfaces have to be grinded only on the places where the conductive grounding will be stuck.
Resistance to ground: 10⁴ – 10⁶ Ohm (EN 1081)

Consumptions are indicative and may be higher, depending on substrate roughness, temperature and porosity, as well as waste produced during application.

* Total consumption including sand.

** The scratch primer is not an imperative part of the system.



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Chemical resistance (according EN 13529)			
Group	Description	Test Liquid	Result
DF 1	Gasoline	47.5% toluene + 30.4% isooctane + 17.1% n-heptane + 3% methanol + 2% 2-methyl-propanol-(2)	Class II
DF 2	Aviation fuels	50% toluene + 50% isooctane Aviation fuel 100 LL NATO code F18 Turbo fuel A1 NATO Code F34/F35	Class I
DF 3	Fuel oil, Diesel fuel and other unused combustion motor oils	80 % n-paraffin (C12 to C18) + 20 % methylnaphthalene	Class III
DF 4	All hydrocarbons as well as mixtures containing benzene with max. 5 Vol. %	60% toluene + 30% xylene + 10% methylnaphthalene	Class I
DF 4b	Crude oils	10% isooctane + 10 % toluene + 20 % fuel oil + 10 % 1-methylnaphthalene (min 95 %) + 47.7 % heavy fuel oil + 0.2 % thiophene (99 %) + 0.3 % dibenzylsulfide + 0.5 % dibutylsulfide (97 %) + 1.0 naphthenic acid mixture + 0.1 % phenol + 0.2 % pyridine + 2 % water	Class III
DF 4c	Used combustion motor oil and used automotive transmission oil with a flash point > 55 °C	80% motor oil + 10% toluene + 9.9% water + 0.1% anionic tenside	Class III
DF 5	Mono- and polyvalent alcohols (up to a max. 48 vol.-% methanol), glycol ethers	48 Vol.-% methanol + 48 Vol.-% IPA + 4% water	Class I (7d)
DF 5a	All alcohols and glycol ethers (incl. 5 and 5b)	methanol	Class I (7d)
DF 5b	Single and multi-valent alcohols ≥ C2	48 Vol.-% ethanol + 48 Vol.-% IPA + 4% water	Class I (7d)
DF 7	All organic esters and ketones (including 7a)	50 % ethyl acetate + 50 % methyl isobutyl ketone	Class I (14 d)
DF 7a	Aromatic esters and ketones	50% methyl salicylate + 50% acetophenone	Class I (14 d)
DF 7b	Biodiesel fuel	Rape-oil fatty acid methyl ester	Class III
DF 8	Aqueous solutions of aliphatic aldehyde up to 40 %	Formaldehyde (35% - 40%)	Class I (7d)
DF 8a	aliphatic aldehydes as well as their aqueous solutions (including 8)	50% butanal + 50% heptanal	Class I (7d)
DF 9	Aqueous solutions of organic acids (carboxylic) up to 10 % as well their salts	10 % aqueous acetic acid	Class III
DF 10	Mineral acids (non oxidizing) up to 20% and inorganic salts in aqueous solution (pH<6) except HF	Sulphuric acid (20%)	Class III



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DF 11	Inorganic lye (except oxidizing) and inorganic salts in aqueous solution (pH>8)	Sodium hydroxide solution (20%)	Class III
DF 12	Aqueous solutions of inorganic non-oxidizing salts with a pH value between 6 and 8	Aqueous sodium chloride solution (20%)	Class III
DF 14	Aqueous solutions of organic surfactants	1) 3 % Protectol KLC 50 + 2 % Marlophen NP 9,5 + 95 % water 2) 3 % Texapon N 28 + 2 % Marlipal O 13/80 + 95 % water	Class III
-	Specific Chemical	diphenylmethandisocyanat (MDI)	Class III
-	Specific Chemical	toluylendiisocyanat (TDI)	Class III
-	Specific Chemical	polyetherpolyol	Class III
-	Specific Chemical	polyesterpolyol	Class III
-	Specific Chemical	monoethylengycol	Class III

Class I: 3 d without pressure	Reduction in hardness of less than 50% when measured according to Buchholz method, EN ISO 2815, or Shore method EN ISO 868 24 h after the coating is removed from immersion in the test liquid.
Class II: 28 d without pressure	
Class III: 28 d with pressure	



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CE-MARKING (EN 1504-2)

	
1119	
BASF Coatings GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
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468902	
EN 1504-2:2004	
Surface protection product - coatings EN 1504-2: ZA.1d, ZA.1f and ZA.1g	
Linear shrinkage	NPD
Compressive strength	NPD
Abrasion resistance	≤ 3000 mg
Permeability to CO ₂	Sd > 50
Permeability to water vapour	Class II
Capillary absorption and permeability to water	< 0.1 kg/(m ² xh ^{0.5})
Thermal compatibility after freeze-thaw cycling	≥ 1.5 N/mm ²
Resistance to severe chemical attack	Reduction of hardness < 50 %
Impact resistance	Class I
Crack bridging ability	A3 (-20° C)
Adhesion strength by pull-off test	≥ 2.5 N/mm ²
Reaction to fire	Efl
Skid resistance	NPD

NPD = No performance determined. Performance determined in system build up **MasterSeal 6689 AS**.



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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with BASF and possible resulting damages are in the sole responsibility of the customer.

BASF Coatings GmbH

Donnerschweer Str. 372
26123 Oldenburg
Tel. +49 441 3402-0
Fax +49 441 3402-350
www.master-builders-solutions.basf.de

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