

Durex® Dur-A-Seal A50

Pigmented Acrylic Concrete & Masonry Coating

Description	Durex® Dur-A-Seal A50 is a pigmented one component acrylic copolymer based on methacrylate resins.
Uses	Durex® Dur-A-Seal A50 effectively seals brick, block and concrete against the ingress of water. It also has superior chloride screening capabilities which make it ideally suited to protect all but the high traffic areas of concrete structures such as parking garages and bridges. Pigmented coatings are extremely resistant to weathering effects. Durex® Dur-A-Seal A50 provides durable protection of concrete balconies, exterior walls, exterior of water towers and any concrete or masonry structure where uniform colour and easy clean surfaces are required. Durex® Dur-A-Seal A50 will allow the structure to breathe, a feature which is essential on heated buildings and on structures in contact with earth or water. It can be readily re-coated, after cleaning, should damage occur.

TECHNICAL DATA

PHYSICAL PROPERTIES	
Solvent base	Xylol
Solids	50± 1%
Specific gravity	1.11
Viscosity (cps)	640
Colour and finish	Semi matte, Off white, Grey (custom colours available with 255 litre orders)
Coverage (applying 2 coats)	Smooth dense concrete: 3.7-4.5 m ² /L (151-183 ft ² /gal) Gunitite surfaces, porous block or brick: 1.7-3.1 m ² /L (69-126 ft ² /gal) Actual coverage will vary depending on the porosity and composition of the substrate(s). A test sample should be applied to establish practical coverage on the actual substrate.
METHOD	
RESULT	
Hardness	Pencil ultimate H Tukon 3.7
Flexibility	1/8", 1/4", 1/2" mandrels, Scale 0-10 (0=best) 1,1,1
Cross hatch adhesion	Concrete: No failure Treated Aluminum: No Failure Treated Steel: No failure
Salt Resistance	Coated concrete slabs immersed under 5% Sodium Chloride. Cycled for up to 2 years, wet-dry. No adverse effect.
Alkali Resistance	Calcium hydroxide solution. pH 12.6, 2 years. No effect.
Service Temperature	-50°C to 80°C (-58°F to 176°F)
Chemical Resistance	Unaffected by weak solvents such as Mineral Spirits and Naphthas. Attacked by aromatic solvents and ketones. Unaffected by weak alkalines and resists weak mineral spirits.
Colour Retention	Both acrylic resin and pigments are designed for maximum colour retention. Automotive grade pigments are employed. Only treated fumed silica flattening agents are employed to maximize water screening and to keep pigment binder ratio low. Exposed at Toronto, Halifax and Calgary for up to 10 years in a range of colours. No noticeable colour fading, chipping or flaking. There is a dulling of films due to slight chalking.

Curing/Drying Time Durex® Dur-A-Seal 50 can be applied down to 10°C (50°F) with drying time being approximately 60 minutes. Drying time decreases with increasing temperature. At 25°C (77°F) drying time is approximately 30 minutes. Allow 3 hours before foot traffic on balconies etc.)

Surface Preparation Surfaces to be treated must be dry, clean and sound, free from ice, snow, dew and frost and all dust, dirt, oil, grease, paint, and other deleterious materials detrimental to a positive bond. Substrate must be of uniform texture for best final appearance. Normally, concrete surfaces are lightly sandblasted prior to application.

Mixing and Application Durex® Dur-A-Seal 50 must be stirred thoroughly to disperse pigment flattening agents throughout the resin. Stir frequently during use. Do not dilute. Apply evenly in two coat application using brushes, rollers, or spray equipment. First coat must be tack-free before applying subsequent coats. Materials should be applied by trained personnel. Durex® Dur-A-Seal 50 can be applied at temperatures down to 10°C (50°F). A special

formulation can be supplied to allow application down to 0°C (32°F). Durex® Dur-A- Seal 50 is moisture sensitive and must be applied on a dry substrate.

Clean up Use Durex® 'Cleaning Solvent'. CAUTION: This solvent is flammable so there must be no open lights, flames sparking motors or pilot lights in the vicinity. Smoking near the solvent is to be forbidden. All equipment must be cleaned immediately after use.

Safety and Toxici Durex® Dur-A- Seal 50 is flammable and all precautions necessary for the application of flammable sealers must be observed. There exists a potential explosion hazard. Use protective clothing, rubber gloves, splash guard goggles and required breathing apparatus. If material is splashed into eyes, wash out for at least 15 minutes, until irritation ceases. If irritation continues, see physician immediately. When pouring liquid, attach static line (battery jumper cable) from pouring container to receiving container. No source of ignition should be present (i.e. sparking motors, switches, open flames, pilot lights, cigarettes etc.)

Storage Keep containers cool, dry and out of direct sunlight. Ventilate storage area to prevent build-up of vapours. Shelf life is two years.

Packaging Packaged in 18.9 litre pails (5 gal.).

Health and Safety For information and advice on the safe handling, storage and disposal of chemical products, refer to the most recent MSDS sheet containing physical, environmental, toxic and other safety/materials handling data. For Industrial use only. Keep out of reach of children.

Warranty Durabond Products Limited fully warrants their products when used and applied in strict accordance with the printed instructions on product mixing and product application. In any case Durabond's responsibility shall not exceed either the refund of the purchase price or the replacement of the purchased product

Technical Service Technical support is available upon request at info@durabond.com. For the latest version of this data sheet, please visit our website at www.durabond.com, call toll free at 1-877-DURABOND (387-2266) or speak with your sales representative.

DURabond

HEAD OFFICE
55 Underwriters Road
Scarborough, ON M1R 3B4
T 416.759.4474 F 416.759.4470

MISSISSAUGA
6178 Netherhart Road
Mississauga, ON L5T 1B7
T 905.565.9283 F 905.565.9365

EDMONTON
14345 120th Avenue
Edmonton, AB T5L 2R8
T 780.451.6364 F 780.453.9056

INFO@DURABOND.COM

WWW.DURABOND.COM

1.877.DURABOND (387.2266)

V2.01