



**Technical Data
Sheet For:**

**INTACHEM™
HD-400**

Description:

Heavy Duty
Degreasant

Coverage:

Circa. 4 sq.m/litre

INTACHEM IS THE TRADE
MARK OF F&D BULK
SERVICES LTD

**IntaChem House
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It is a special formulation for the breaking down and removal of black carbon dirt, oils and greases from any masonry surface. It will also attack paint films and can be used by the quicker Degreasant preparation of masonry so that acid based cleaners can work more efficiently and give better even cleaning results. When used as a degreasant followed by the appropriate acid agent a more rapid and economical cleaning can be achieved, or total cleaning can be achieved using a long contact method of application.

When used on masonry the full colour of the cleaned masonry surface is retained. The product is also a slow acting paint stripper.

Product Description:

HD-400 is a milky aqueous formulation containing sodium hydroxide. It is corrosive, non flammable and when adequately diluted the organic materials present are bio-degradable. The viscosity helps reduce absorption into the pre-wetted masonry.

How to use the product:

Any large organic deposits should be removed either by scraper or by use of power jet spray before the chemical is applied. Establish by a test patch trial, the full method and contact times necessary to achieve a satisfactory result. The surface should be pre-wetted and left to drain down. Using a nylon brush, work the product over the pre-wetted surface and leave a visible coating covering the masonry or with due care use an applicator spray (operative must be informed that the product is corrosive!)

Normal contact time is 1 hour, up to a maximum of 3 hours, during any single application. Application may be repeated after jetting off if it is considered necessary. Jetting off is preferable with hot water, but cold water may suffice, but requires 3 min/sq.m. jetting. A final treatment with an acid based cleaner if necessary, or a neutralisation agent (LC500) should then follow. The surface coated with HD400 should not be left long enough to dry out. The thickened product is better where long contact times are necessary.

For the removal of paint from masonry the product may be applied onto the dry paint surface. The product is slow acting on thick paint films and repeated treatments are often necessary unless more rapid agents (e.g. IntaChem's Inter-Strip) have first been applied to soften and remove the bulk of the paint surface.

General Safety Precautions:

Containers must be stored in a safe place with the caps secured. A trained responsible person(s) should be appointed to ensure security in depots, in transit and on site. Only competent persons should handle this product. Spillages should be dealt with immediately.

Materials to be avoided:

Aluminium and zinc (galvanised metals) and lead. Painted surfaces and polished wood need to be protected.

Protection of Operative:

Chemical protection suits are needed along with PVC gauntlet gloves, face shield and head cover also suitable footwear. A bucket of clean water for emergency use should be at hand. Nobody must be allowed to pass or work near or underneath cleaning areas. Spillages must be washed down immediately as should all equipment, scaffolding etc after each days work. Good ventilation is essential. All persons must be familiar with the required safety precautions and correct method of handling the product. If using a spray applicator breathing equipment must be worn.

First Aid Advice:

Accidental splashes on the skin or clothing must be washed off immediately with fresh clean water. Contaminated clothing should be removed.

SPLASHES ON THE SKIN: Wash immediately with plenty of water. Solution of 1 part vinegar to 3 parts clean water can be found beneficial to neutralise the alkalinity of the skin and after using the mixture the skin should be washed thoroughly. **SPLASHES IN THE EYES:** Must be immediately irrigated with plenty of clean water. An eyewash of dilute basic acid may be used. **IN ALL CASES OF EXTENSIVE BURNS MEDICAL HELP SHOULD BE SOUGHT IMMEDIATELY.**

Ecology:

When diluted, the organic ingredients present are all bio degradable. Wash any splashes off plants or vegetation immediately or protect them with plastic sheeting. Wash down debris as not considered harmful to fish. Water authorities should be consulted about disposal into drains or water courses.



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Safety Notes:

1. Always store containers in secure conditions.
2. Keep containers closed when not in use.
3. COSHH Data: HD400
4. Hazardous Ingredients: Contains Sodium Hydroxide (less than 25%) UN182A
5. Physical Data: A milky aqueous fluid
6. Solubility: Totally water soluble
7. S G: 1.23—1.29 circa
8. pH Value: Greater than 13
9. Hazard classification: Corrosive
10. Flammability: Non-flammable
11. Fume Hazards: None
12. Handling precautions: Only experienced trained persons should use this product. Wear full hand, face, foot and body protection. Have clean water to hand for emergencies. Store containers in a safe place and ensure caps are clothed. Dilution for spray application is not recommended.
13. First Aid—Skin: Wash with plenty of water and seek medical help.
14. First Aid—Eyes: Irrigate with plenty of water and seek medical help.
15. First Aid—Ingestion: Drink plenty of water and seek medical help.
16. Spillages: Either dilute adequately or absorb into soil and dispose of the debris in the approved manner.
17. Disposal: Ensure adequate dilution before discharge into drains.
18. NEVER leave container full or empty where the public may come into contact with them.
19. ALWAYS fill containers with water before disposing of them.

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1. IDENTIFICATION OF SUBSTANCES, PREPARATIONS AND COMPANY:

Name of Preparation: HD-400
Supplier: IntaChem, 1 Irwin Drive, Nottingham NG6 7BJ

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Composition: Classified as hazardous both for supply and carriage under CHIP regulations
Contains: (1) 10-30% w/w Sodium Hydroxide
CORROSIVE—Symbols C
(2) 1-10% w/w Amphoteric and non-ionic detergents
IRRITANT

3. HAZARDS IDENTIFICATION:

HD-400 presents hazards to operators if not used correctly as caustic soda (sodium hydroxide) is corrosive to skin and eyes. Causes severe burns. Always consult local water authority and local council before disposal of waste water debris. HD-400 presents little ecological hazards due to the large amounts of rinse water used in normal operations. Consult local water authority prior to disposal of waste water debris.

4. FIRST AID MEASURES:

Care should be taken to avoid contact with the eyes and skin. If splashes occur the following procedures should be adopted.

- A) Wash all affected areas with liberal quantities of water for at least 1 minute.
- B) Remove all contaminated clothing.

EYES: Irrigate with water for 15 minutes ensuring water bathes the eyeball. Seek medical attention immediately. INGESTION: First wash out mouth and throat frequently with water. Do not give emetics. Seek medical advice. SKIN: Wash off with copious water. Remove contaminated clothing. Seek medical advice. INHALATION: Remove to fresh atmosphere. Treat as for ingestion. SKIN: Wash off with copious amounts of water. Remove contaminated clothing. Seek medical attention.

5. FIRE FIGHTING PROCEDURES:

HD-400 is not flammable.

6. ACCIDENTAL RELEASE MEASURES:

Always prevent skin and eye contact. Hose away spillages to foul water sewer or absorb with sand/granules. For larger spillages or if water is not available, slowly cover with soil or sand. Dispose of separately via authorised waste contractor. See also Exposure Controls and Personnel Protection—Section 8.

7. HANDLING & STORAGE:

Ensure all information in this data sheet is read and understood before using this product. Do not allow the concentrated or dilute preparation to come into contact with eyes and skin. Wear full protective clothing, PVC overalls, gloves, face shield and rubber footwear. Use with care. Only experienced operatives should handle this product. Avoid inhalation of mist or fumes when using on stonework. Use cold only. A CoSHH assessment is necessary for this preparation. Operators must be aware of the caustic nature of the preparation. Precautions required as the caustic content of HD-400 outweigh all other ingredients.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Engineering Controls:

Ensure that both operators carrying out the stone cleaning and the general public do not come into contact with concentrated product or wash water by following the procedures (close sheeting) outlined in BS8221—Code of Practice for the Cleaning of Stone & Masonry.

Respiratory protection is not normally required as a full face visor incorporated into a plastic wet suit is adequate for stone cleaning purposes when rinsing is carried out. Hands must always be protected by PVC gauntlet type gloves ensuring no gaps between the protective suit and gloves. Wear full protective suit, rubber boots in addition to PVC and full face shield.



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9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Straw coloured fluid
pH:	13.5
Boiling Point:	100 degrees Celsius
Melting Point:	Less than minus 20 degrees Celsius
Flash Point:	Non Flammable
Specific Gravity:	1.24
Solubility in H2O:	Soluble in water at all proportions
Viscosity:	10,000 centipoises at 20 degrees Celsius

10. STABILITY & REACTIVITY:

Product is stable at normal ambient temperatures. Always use cold. Avoid contact on the following metals: Aluminium, zinc and galvanised surfaces, lead. Also painted surfaces and polished wood need to be protected. Reacts strongly with all acids.

If the product is accidentally heated to decomposition fumes of sodium hydroxide are emitted. Short term exposure limit 10 minutes ref period—2 mg/m³.

11. TOXICOLOGICAL INFORMATION:

HD-400 is corrosive to skin and eyes or if swallowed due to its content of sodium hydroxide, the corrosivity of which overrides all other ingredients in the formulation. The preparation also contains minor levels of surface active detergents necessary for complete rinse off.

12. ECOLOGICAL INFORMATION:

HD-400 provides little ecological hazard as all organic detergents are fully biodegradable. Experience has shown that when a stone surface is washed in the manner recommended the alkali residues are not considered an ecological hazard.

Should the concentrated product be accidentally spilled into water courses, carry out procedures as detailed in previous section for general spillage and immediately inform the Local Water Authority.

13. DISPOSAL CONSIDERATIONS:

Small quantities should be hosed away with copious amounts of water to foul sewer. Larger quantities should be absorbed with sand, granules or soil and this solid residue disposed in an approved manner. When empty containers should be filled with water, rinsed clean and emptied to foul sewer. Containers may then be disposed via solid waste.

14. TRANSPORT INFORMATION:

HD-400 is classified as corrosive for conveyance.	
Transport:	UN No 1760 Corrosive liquid, Toxic NOS
Carriage:	Primary Hazard Corrosive
Packaging:	Packing Group II

15. REGULATORY INFORMATION:

R&S Phrases	
R35:	Causes severe burns
S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
S37/39:	Wear suitable gloves and eye/face protection
S45:	In case of accident or you feel unwell seek medical attention immediately and where possible show this sheet or the product label.

Refer to use instructions for building cleaning as detailed in BS8221—Code of Practice for Cleaning of Stone & Masonry.

All relevant procedures under Health & Safety at Work Act and the Control of Substances Hazardous to Health (CoSHH) regulations must be observed.

Prior to work a complete written CoSHH assessment must be carried out so that all personnel are aware of the handling precautions and operations necessary with this preparation.

Possession of this data sheet does not constitute users own assessment of workplace risk as required by CoSHH but will form the basis of such assessment.



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16. OTHER INFORMATION:

Training Advice:

HD-400 contains corrosive alkali, full training in the use of this preparation must be given to operators to ensure they are aware of both health & safety precautions and operating procedures.

Detailed advice on building cleaning methods is provided in the IntaChem Product Data Sheet for this product and in BS8221—Code of Practice for Cleaning of Stone and Masonry. These bulletins must be read in conjunction with this safety sheet before operations start.

Recommended Uses & Restrictions:

Use of removal of black carbon, dirt, oils and greases from any masonry surface. HD-400 attacks paint films and can be used as a degreasant prior to use of acid base masonry cleaners. Use mainly for sandstone (not red sandstone) and brick where the full colour of masonry is retained.

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